


Department of Engineering
Dan Gaillet, P.E., County Engineer

3137 South Liberty Street, Canton, MS 39046
Office (601) 790-2525 FAX (601) 859-3430

MEMORANDUM

June 27, 2018

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E. 
County Engineer

Re: CSpire
Denim Way

The Engineering Department recommends approval of permit application for CSpire to bore 317 feet of fiber along and under Denim Way.

MADISON COUNTY, MISSISSIPPI
 PERMIT APPLICATION FOR USE AND OCCUPANCY
 FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
 WITHIN COUNTY ROAD RIGHT-OF-WAY

UTILITY NAME CSPIRE

BY STEVE CASE

PHONE 602-590-3120 ADDRESS 1018 HIGHLAND COUNTY PARK

herein called APPLICANT, proposes to construct on DENIM WAY

said facility to be installed between roads INDUSTRIAL DR S and PARKWAY E and within the road right-of-way, and hereby makes application to the County for construction permit. Attached hereto are drawings or plans for the construction, which will not be changed or altered without approval of the County Engineer, or his representative. Beginning in Section 8, Township 2, Range 28, and ending in Section 8, Township 2, Range 28.

Whereas, the Legislature of Mississippi has heretofore granted to the applicant the right to locate its facilities upon, across, under, over and along public highways and streets within the State of Mississippi; Applicant agrees to comply with applicable provisions of S.O.P. No. SAD II-2-8, Policy for the Accommodation of Utility Facilities within the Rights-of-Way of County Federal Aid and State Aid Highways (hereinafter referred to as the "Policy"), promulgated by the State Aid Engineer and dated January 1, 1983, and which is hereby made a part of this application Agreement, and agrees to perform the construction according to the applicable industry code and according to the plans and specifications for the Project.

The Applicant shall comply with all policies, procedures and construction practices as outlined in "A Policy for The Accommodation of Utility Facilities within the Right-of-Way of all Public County Roads", as adopted on May 1, 1992, by the Madison County Board of Supervisors.

The Applicant is 100% liable for verifying the location of County right-of-way and for locating permitted utilities within its limits. The Applicant is responsible for verifying the location of all storm drainage structures before boring.

The Applicant shall be responsible for the future maintenance and repair of the facilities. The Applicant shall make future adjustments in, or relocate, the facilities located within road or highway right-of-way when required for road or highway widening or other road or highway construction at no cost to the county. The Applicant Utility shall relocate said utilities within sixty (60) days of notification by County by registered mail, return receipt requested, unless otherwise designated by the County Engineer. Further, any maintenance, repair, or construction shall be done in such a manner as to occasion no unreasonable interference with the normal flow and safety to traffic and at the expense of the utility company. When reasonable care has been taken to locate said utility facilities within the right-of-way, the applicant understands that any damages caused by routine maintenance and construction by county forces shall be borne by the applicant Utility.

A general description of the size, type, nature, and extent of the Utility work to be done is as follows:

BURIED FIBEROPTIC CABLE ACROSS & ALONG DENIM WAY IN THE BACK 5 FT OF COUNTY ROW, MIN 48" DEEP

The Applicant is responsible for insuring that all utilities in the aforementioned description of work be laid at a minimum depth of 48".

The applicant understands and agrees that, except as herein granted, no right, title, claim, or easement to said road right-of-way is granted by the issuance of this permit and if this Utility Facility as listed in the general provisions of the Policy, it will be adjusted to comply with same without cost to the County, unless the variance from the Policy has been approved by the granting of the Permit pursuant to this Application.

The Applicant further understands that the Utility's engineering, plant, or other personnel will be responsible for the staking and construction supervision of the work set out above and as shown on the attached plans.

The applicant further agrees to indemnify and hold county harmless for any and all claims, accidents, damages, liabilities and expenses occasioned wholly, or in part, by any act or omission of applicant, its agents or employees. In case County shall, without fault on its own part, be made a party to any litigation commenced by or against applicant, then applicant shall protect and hold County harmless, and shall pay all costs, expenses and reasonable attorney's fees incurred or paid by County in connection with said litigation.

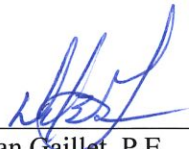
Madison County agrees to the following stipulations:

- (1) To cooperate with the Utility Company in every way to avoid conflicts in the location, construction, and maintenance of the County Highway and Utility Facility.
- (2) To pursue any and all legal means to see the Policy Standards, except to the extent of any variance shown on the plans filed herewith and approved, are complied with in the facility installation.
- (3) If the County Engineer or his authorized representative approved the drawing, sketches, and plans submitted by the Applicant, he shall so indicate by signing and dating the Permit Approval at the end of this application; and the Applicant may proceed with the installation; if the drawings, sketches, and plans are not approved, he shall promptly notify the Applicant, and advise it of the reason or reasons. He will also act as the duly appointed representative of the Board of Supervisors and will give his approval to the completed work as being in compliance with the location and standards shown in the Policy and in the Agreement for the installations.
- (4) That all joint highway construction and utility adjustment or relocation operations will comply with the requirements of Section S-105.06 and Section S-107-18, Mississippi Standard Specifications for State Aid Road and Bridge Construction, 1989 edition (or current edition).
- (5) Should any term of provision of this Applicant Agreement conflict with the law of the State of Mississippi, the Mississippi Constitution, or the United States Constitution, or impair or deny to the Applicant or the County any right protected thereby, it shall be deemed amended to conform to said law or Constitution.

WITNESS the signature of the Applicant this the 25 day of JUNE, 2018.

By: Steve Cox
(Applicant Signature)

Title: CONTRACTS & REPORTS



Dan Gaillet, P.E.
Madison County Engineer

AGREED TO AND APPROVED BY:

Madison County Board President

Date: _____

ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON COUNTY,
MISSISSIPPI ON THIS _____ DAY OF _____, _____.

6/19/18



ASBUILT INFORMATION

| | |
|-------------------------|--------------------|
| FIELD ENGINEER: | NAME: CODY PICKELL |
| PROJECT MANAGER: | NAME: _____ |
| CONSTRUCTION: | NAME: _____ |
| SUB CONTRACTOR: | NAME: _____ |
| INSPECTOR: | NAME: _____ |
| | PHONE#: _____ |
| CONSTRUCTION COMMENCED: | DATE: _____ |
| CONSTRUCTION COMPLETED: | DATE: _____ |
| FIBER INSTALLED: | DATE: _____ |
| FINAL CLEANUP: | DATE: _____ |



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|---------|---------|---------|
| << | PERMITS | >> |
| COUNTY: | | MADISON |

RB *Not in City Limits*

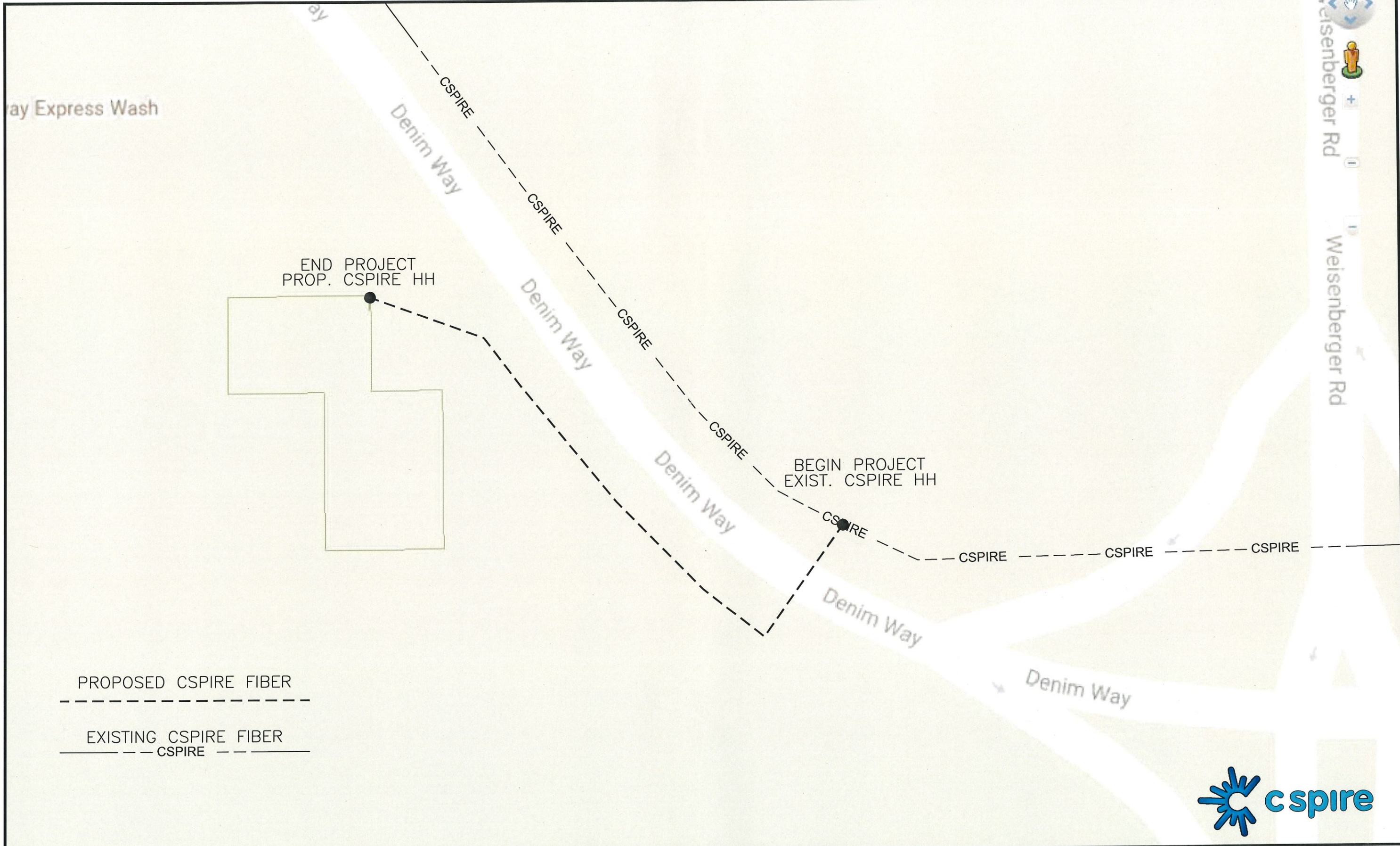
NVSBI.OSP.32276
CSF.OSFPMS-MADCTY.MS

PROPOSED FIBER BUILD
SBI-Decorative Cener
6-6-18

PREPARED BY
 **cspire**

1018 HIGHLAND COLONY PARKWAY
SUITE 340
RIDGELAND, MISSISSIPPI 39157
1-800-342-3716

ROUTE MAP



SBI-Decorative Cener





CONSTRUCTION NOTES:

- ALL CONDUIT WILL BE 4" ID SCHEDULE 40 (ie. PVC OR BSP/GSP, MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP), UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. CALL ONE CALL SYSTEM @ 1-800-227-6477.
- ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
- SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 60" MINIMUM COVER CROSSING ALL STATE AND OR COUNTY ROADS AND ALL CREEK BEDS UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 38.2" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENT, UNLESS SPECIFIED OTHERWISE.
- OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION.
- ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
- RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 48 HOURS NOTICE PRIOR TO CONSTRUCTION
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 24" MINIMUM BELOW THE LOWEST POINT OF EXISTING CITY UTILITY BEING CROSSED.
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 48" MINIMUM BELOW ALL CITY & OR SURFACE STREET(S) WHERE NO UTILITY IS CROSSED.
- CONSTRUCTION CONTRACTOR SHALL PLACE MARKER POLES AT ALL H.H. LOCATIONS & AT EVERY MAJOR P.I. CONTRACTOR WILL PLACE MARKER POLES DURING THE CONSTRUCTION PHASE.

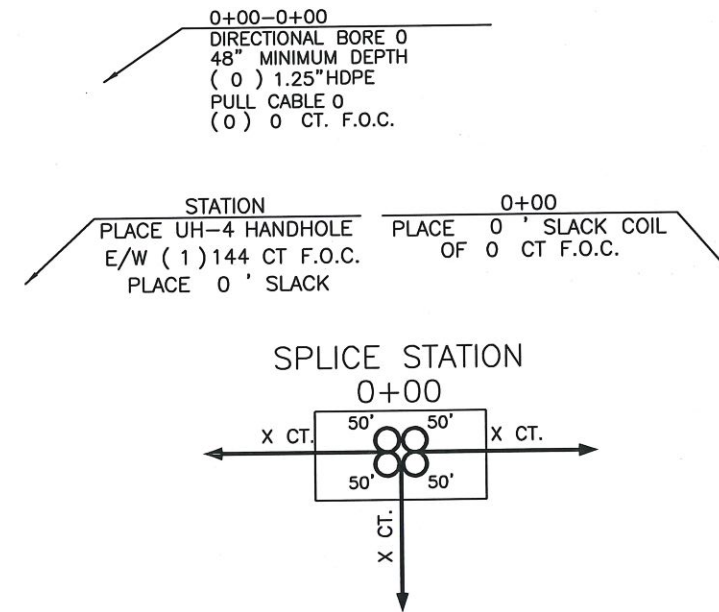
GENERAL NOTES:

- ALL WORK TO BE DONE WITH EXTREME CAUTION, FIBER OPTIC CABLE CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE.
- ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, TELEPAK, OR THE RIGHT-OF-WAY GRANTOR.
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICTS.
- ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, IF DAMAGED.
- ANY AND ALL IMPROVEMENTS, SUCH AS, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- EQUIPMENT TYPES SPECIFIED HEREIN (ie: "BACKHOE, "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXCEPTIONS.

CLARIFICATION NOTES:

NOTE: CALLOUTS WILL BE PLACED ON EACH DRAWING INDICATING FOLLOWING:

- MATERIAL AMOUNT
- DEPTH IF BURIED
- SIZE OF FIBER
- SIZE OF HDPE
- SIZE OF STRAND
- CABLE ID



TRAFFIC CONTROL NOTES:

ALL WORK SHALL COMPLY WITH THE UNIFORM TRAFFIC CONTROL MANUAL. (1998 EDITION OF MUTCD, REVISION 3) OR NEWER VERSIONS OF THIS MANUAL.

NOMENCLATURE

DEFINITION

SYMBOL

- | | | |
|---------------|---|------|
| 1. BM2-8 : | PLACEMENT OF EIGHT FOOT GROUND ROD OUTSIDE OF HAND HOLE SIX INCHES BELOW GROUND LEVEL WITH PLACEMENT OF GROUND WIRE WITH THE CONNECTOR. | |
| 2. BM53F : | PLACEMENT OF PLASTIC MARKER POLE, MINIMUM OF 30" IN GROUND AS INDICATED BY DRAWINGS. | |
| 3. BM53F(A) : | PLACEMENT OF LOCATE MARKER POST AND PLACEMENT OF WIRE INSIDE OF POST FROM GROUND ROD AND SPLICE CLOSURE TO BE TERMINATED IN POST FOR LOCATION OF FACILITIES AS INDICATED ON DRAWINGS. | |
| 4. BM72 : | RESTORATION OF ASPHALT PER SQ. FT. AS REQUIRED BY COMPANY REP. | NONE |
| 5. BM73 : | RESTORATION OF CONCRETE PER SQ. FT. AS REQUIRED BY COMPANY REP. | NONE |
| 6. UO-144 : | PLACEMENT OF 144 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN HAND HOLES AS INDICATED ON DRAWINGS. PRICE PER PLACEMENT IS ON 'PER FOOT' BASIS. | NONE |
| 7. UO-24 : | PLACEMENT OF 24 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN HAND HOLES AS INDICATED ON DRAWINGS. PRICE FOR PLACEMENT IS ON A 'PER FOOT' BASIS. | NONE |

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|------------------------|--------------------------|
| FILE NAME T-01 | |
| PROJECT CITY - | |
| FULL FILENAME T-01.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 1 | DRAWN BY |
| SCALE 1"=50' | PAGE 1 |

REVISIONS

| REV. | DESCRIPTION | INITIALS | DATE |
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MATERIAL LIST

| ITEM | DESCRIPTION | QUANTITY |
|------|-----------------|----------|
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY



PREPARED FOR

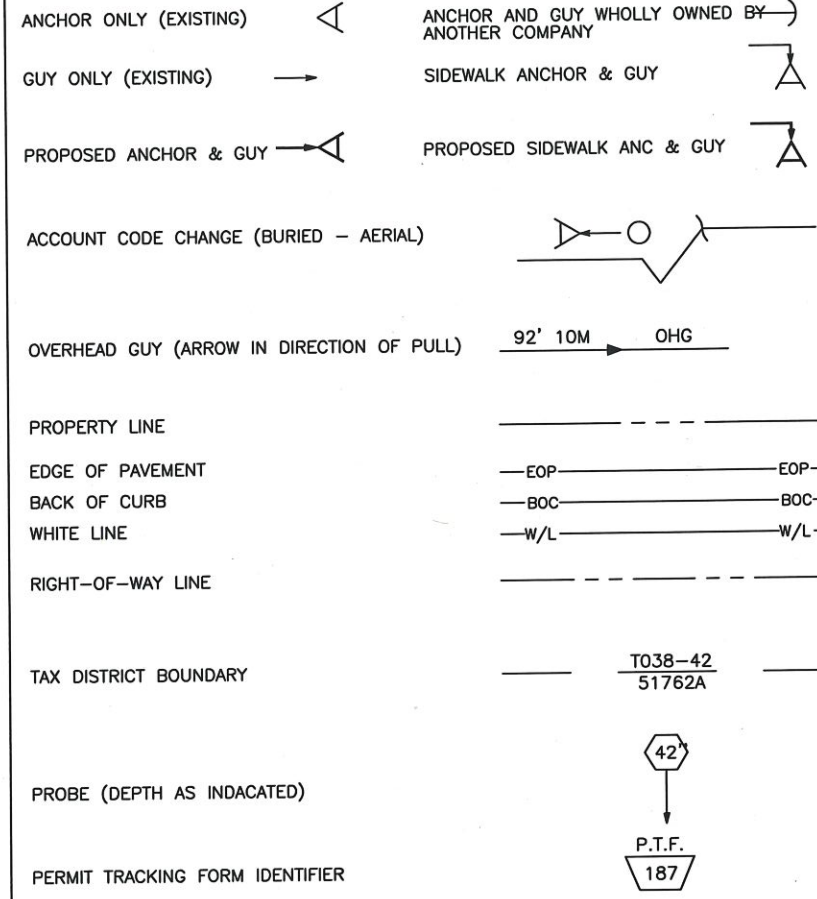
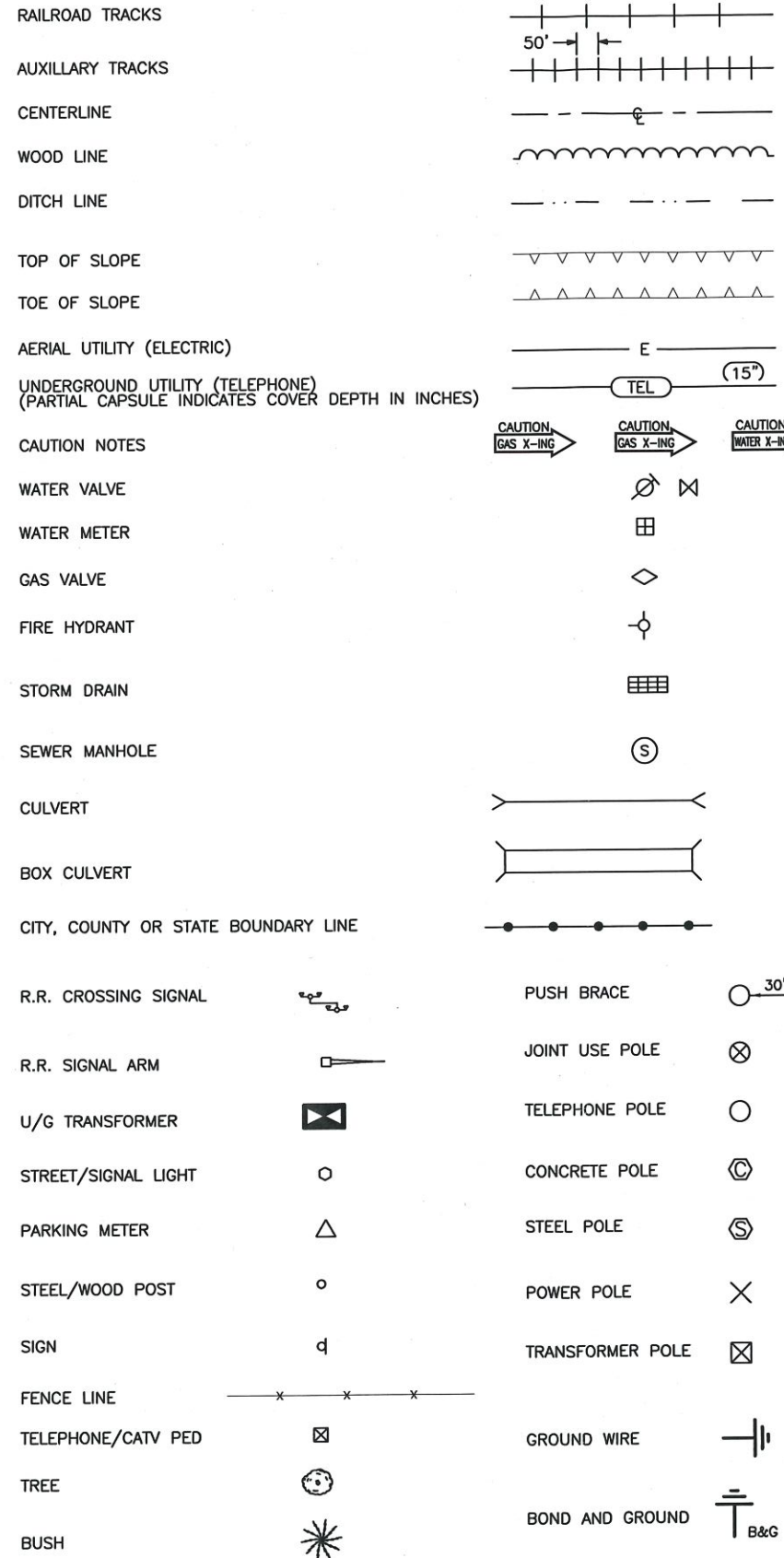
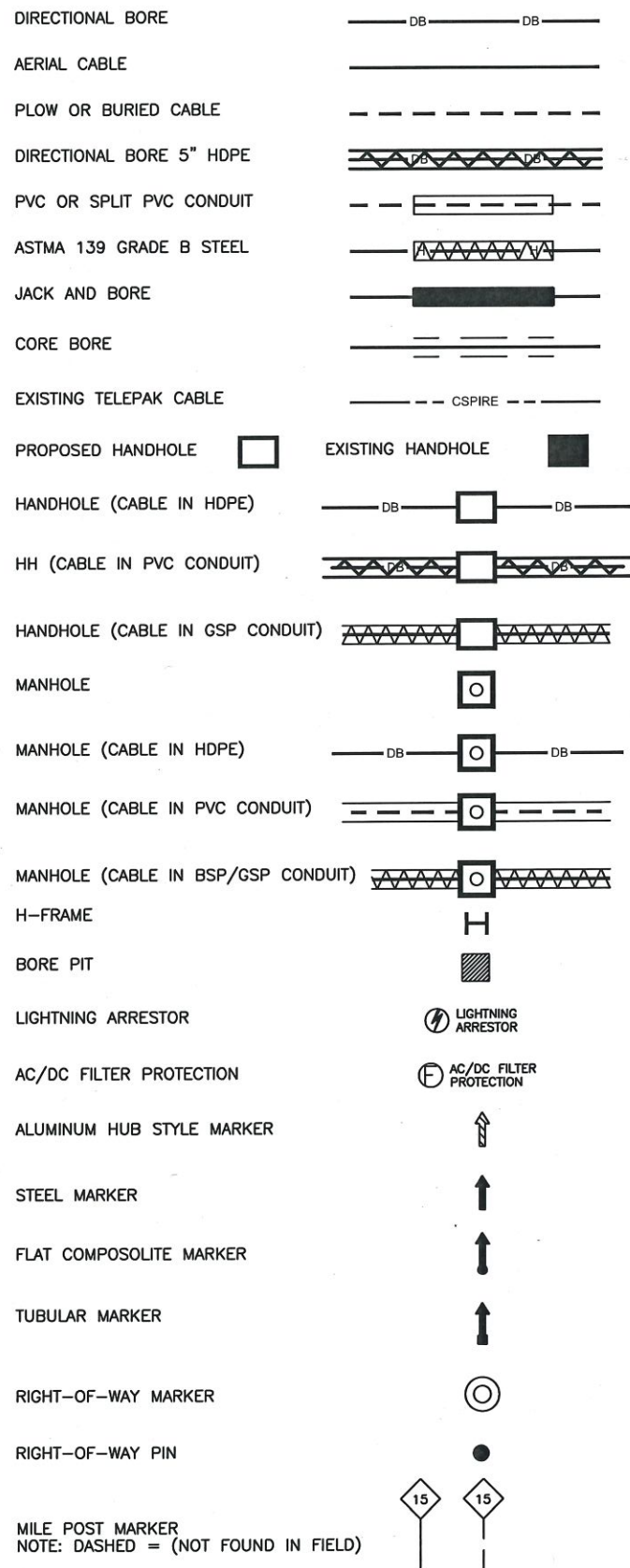


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NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477

SYMBOLS KEY



POLE ATTACHMENT ABBREVIATIONS

| | | | |
|----------|-----------------------------|----------|--------------------|
| PWR | POWER ATTACHMENT | PWR OHG | POWER OVERHEAD GUY |
| TRI | TRIPLEX | CATV OHG | CATV OVERHEAD GUY |
| COMM | COMMUNICATIONS ATTACHMENT | CAP BANK | CAPACITOR BANK |
| CATV | CATV ATTACHMENT | CLTCKT | FIRE ALARM CIRCUIT |
| SL | STREET LIGHT | PWR DIP | POWER DIP |
| TSIG | TRAFFIC SIGNAL | COMM DIP | COMMUNICATIONS DIP |
| MDW | MULTI DROP WIRE | CATV DIP | CATV DIP |
| COMM OHG | COMMUNICATIONS OVERHEAD GUY | TEOP | TRAFFIC LIGHT |
| FL | FLOOD LIGHT | TGUY | TRAFFIC GUY |
| WH | WEATHER HEAD | MS | MIDSPAN |
| TRAN | TRANSFORMER | OHG | OVERHEAD GUY |
| TELEPAK | TELEPAK ATTACHMENT | TOP | TOP OF POLE |
| SEC | SECONDARY POWER | NEU | NEUTRAL |



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| FILE NAME T-02 | |
| PROJECT CITY - | |
| FULL FILENAME T-02.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 2 | DRAWN BY |
| SCALE 1"=50' | PAGE 2 |

REVISIONS

| REV. | DESCRIPTION | INITIALS | DATE |
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MATERIAL LIST

| ITEM | DESCRIPTION | QUANTITY |
|------|-----------------|----------|
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY
 cspire

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| MAP NUMBER | |
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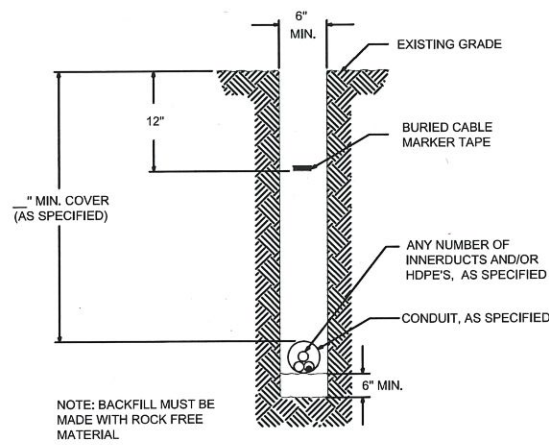
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ONE CALL SYSTEM @ 1-800-227-6477

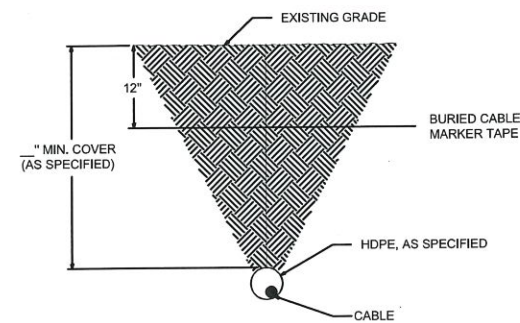


PLACEMENT-TYPICALS

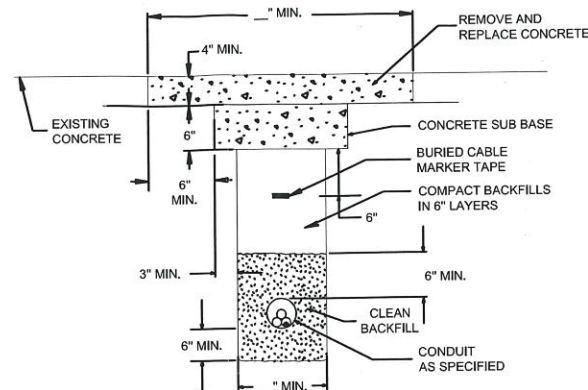
TYPICAL DETAIL "A"
PLACE CONDUIT
CROSS SECTION



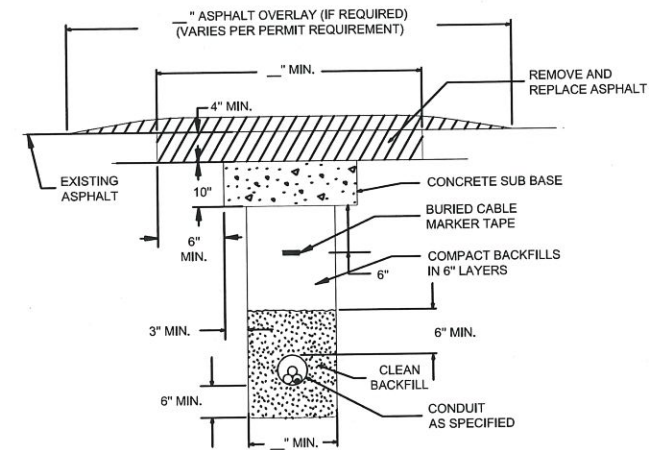
TYPICAL DETAIL "B"
PLACE HDPE CROSS
SECTION



TYPICAL DETAIL "C"
CONCRETE / PAVEMENT OPEN CUT
CROSS SECTION

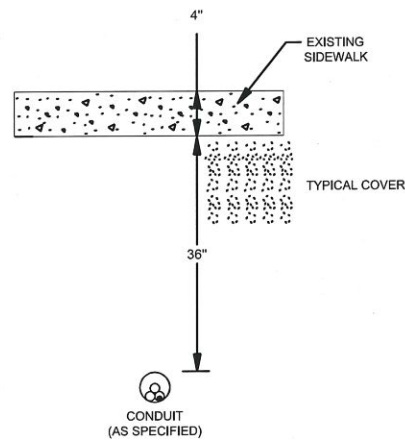


TYPICAL DETAIL "D"
ASPHALT/PAVEMENT OPEN CUT
CROSS SECTION

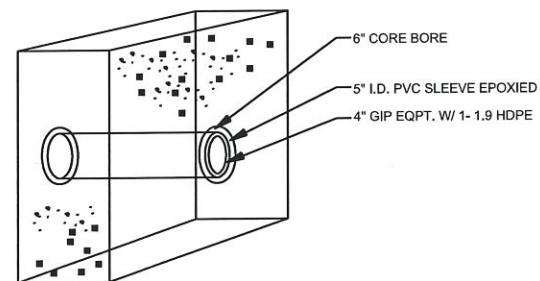


OPEN CUT-TYPICALS

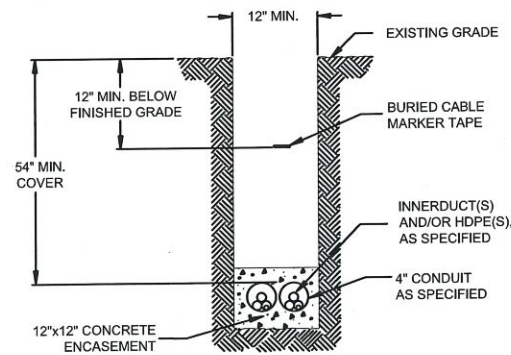
TYPICAL DETAIL "E"
BORE CONCRETE SIDEWALK



TYPICAL DETAIL "F"
CORE BORE
(CONCRETE / BRICK WALL)

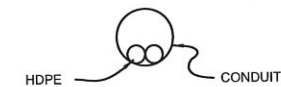


TYPICAL DETAIL "G"
12"x12" CONCRETE ENCASEMENT



NOTE: BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

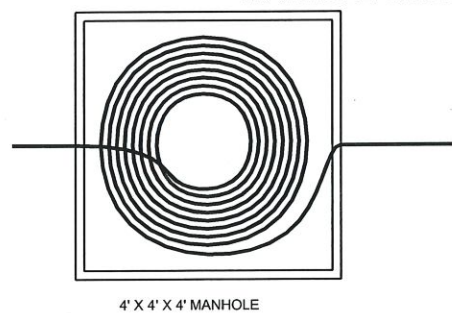
TYPICAL DETAIL "H"
PLACE (2) 1.25" HDPE IN CONDUIT



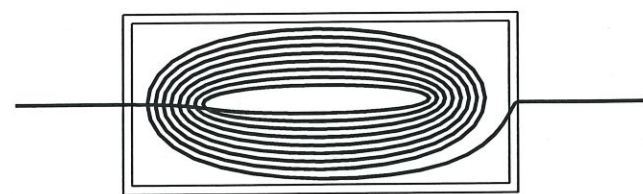
TYPICAL DETAIL "I"
PLACE CABLE IN HDPE



TYPICAL DETAIL "J"
MANHOLE & HANDHOLE SLACK COIL DETAIL

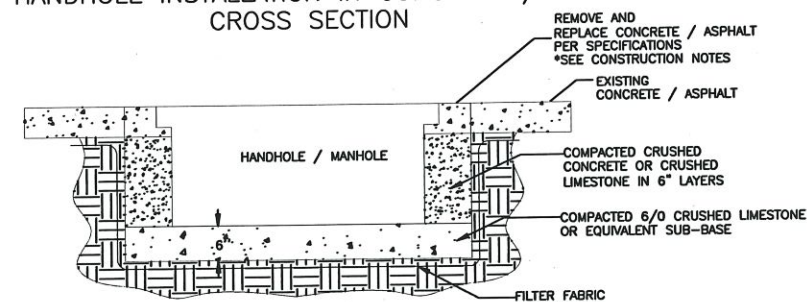


4' X 4' X 4' MANHOLE



2.5' X 5' X 2.5' HANDHOLE

TYPICAL DETAIL "K"
HANDHOLE INSTALLATION IN CONCRETE / ASPHALT
CROSS SECTION



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|------------------------|---------------------------|
| FILE NAME T-03 | |
| PROJECT CITY - | |
| FULL FILENAME T-03.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 3 | DRAWN BY |
| SCALE 1"=50' | PAGE 3 |
| REVISIONS | |
| REV. | DESCRIPTION INITIALS DATE |
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| MATERIAL LIST | | |
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| ITEM | DESCRIPTION | QUANTITY |
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY
 cspire

PREPARED FOR
 cspire

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| MAP NUMBER | | |
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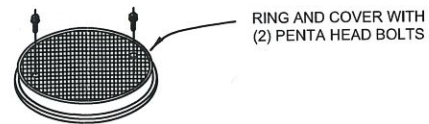
NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



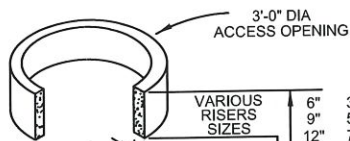
CAPITOL CONCRETE PRODUCTS, INC

FIBER OPTIC/LIGHTGUIDE
SPLICE VAUEOP
4'-0"X4'-0"X4'-0"

GRADE 60 REINFORCEMENT
4500 PSI CONCRETE
REINFORCEMENT FOR
AASHTO M-20 LOADING

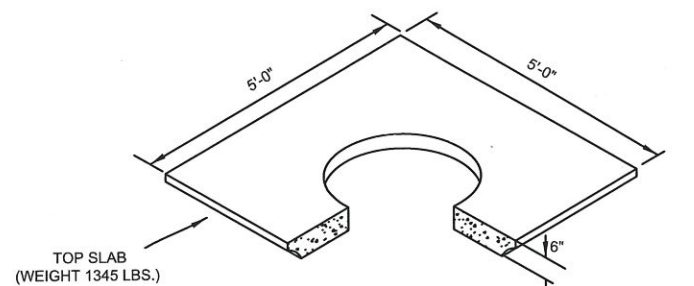


RING AND COVER WITH
(2) PENTA HEAD BOLTS

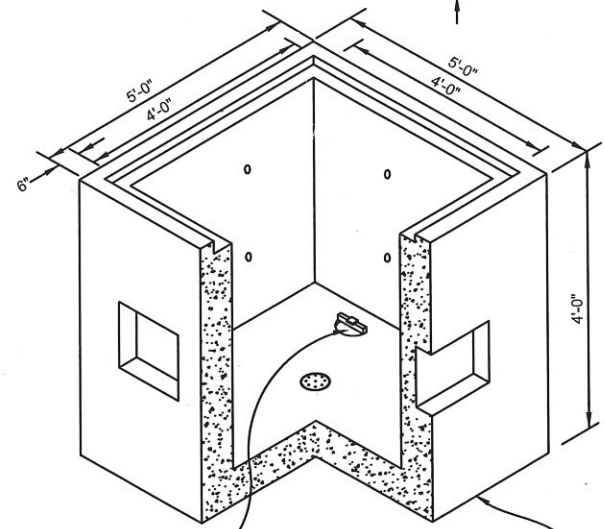


3'-0" DIA
ACCESS OPENING
VARIOUS
RISERS
SIZES

| | |
|-----|----------|
| 6" | 370 LBS |
| 9" | 560 LBS |
| 12" | 740 LBS |
| 15" | 925 LBS |
| 24" | 1485 LBS |



TOP SLAB
(WEIGHT 1345 LBS.)



PULLING IRONS (1) ON
EACH END OPPOSIT DUCT
ENTRANCE (ON BOTTOM)

VAUEOP
(WEIGHT 7275 LBS)

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| FILE NAME T-04 | |
| PROJECT CITY - | |
| FULL FILENAME T-04.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 4 | DRAWN BY |
| SCALE 1"=50' | PAGE 4 |

| REVISIONS | | | |
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| MATERIAL LIST | | |
|---------------|-----------------|----------|
| ITEM | DESCRIPTION | QUANTITY |
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY

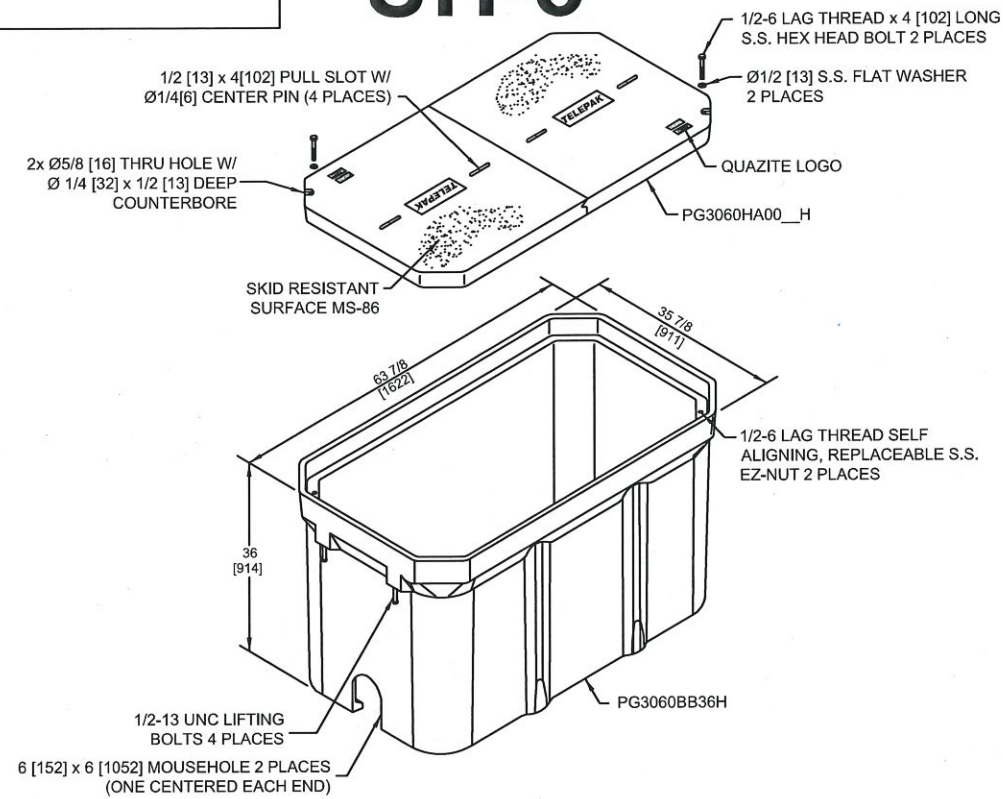
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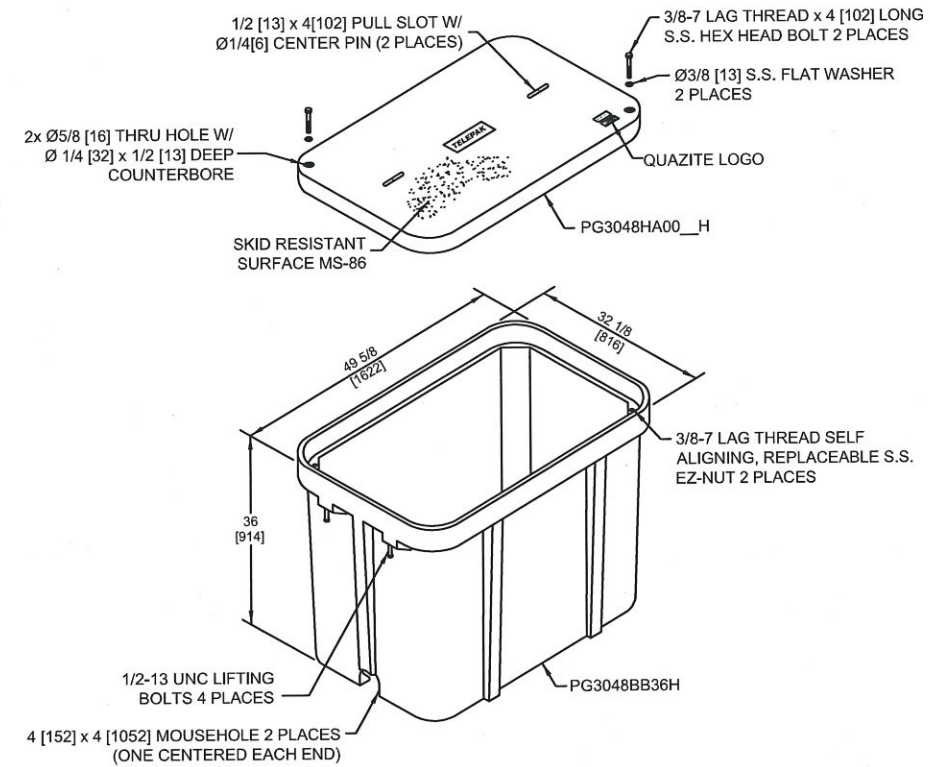
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NOTIFY ALL UTILITIES 72 HOURS PRIOR
TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM © 1-800-227-6477

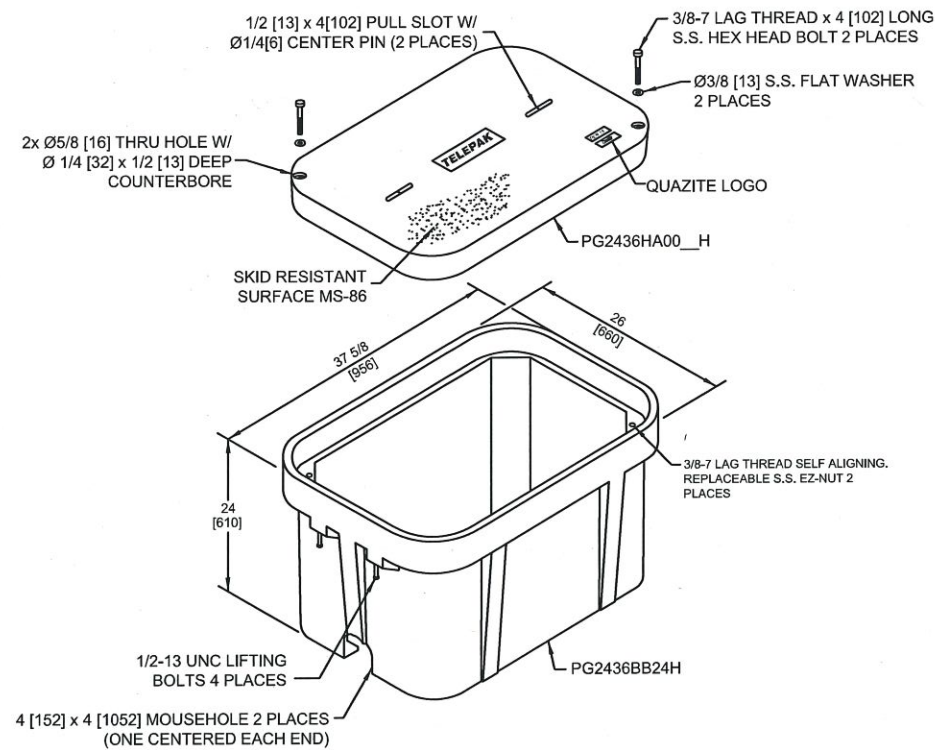
UH-5



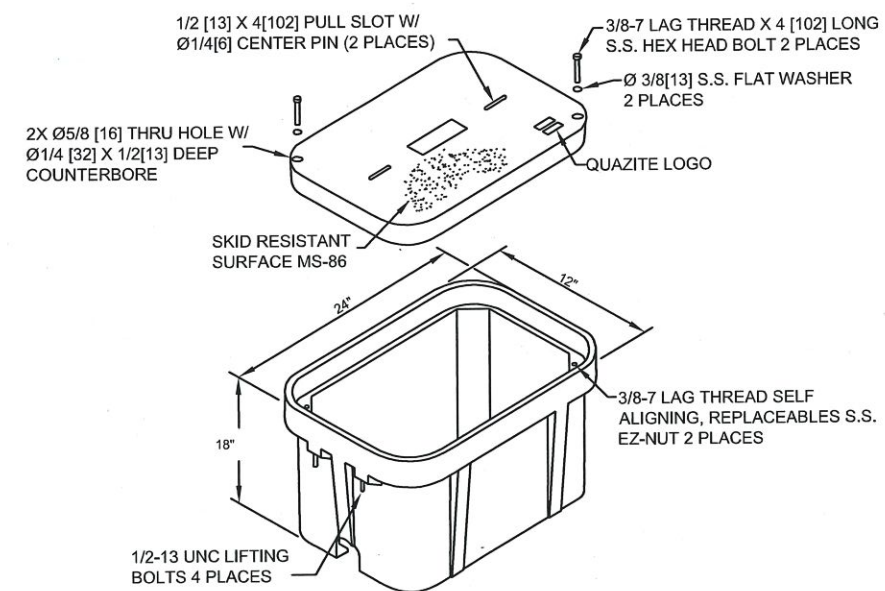
UH-4



UH-3



UH-2



FILE NAME T-05

PROJECT CITY -

FULL FILENAME T-05.dwg

DATE DESCRIPTION CONSTRUCTION

SHEET 5 DRAWN BY

SCALE 1"=50' PAGE 5

REVISIONS

| REV. | DESCRIPTION | INITIALS | DATE |
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MATERIAL LIST

| ITEM | DESCRIPTION | QUANTITY |
|------|-----------------|----------|
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY



PREPARED FOR



MAP NUMBER

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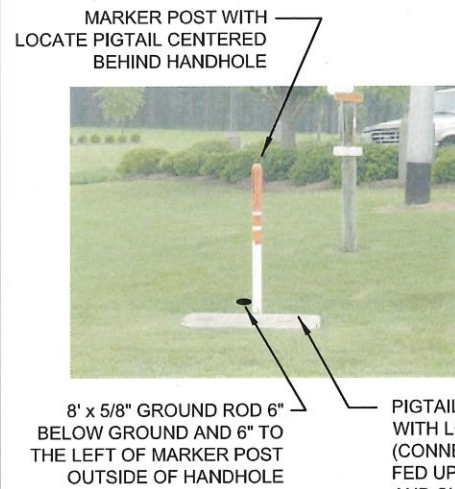
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TYPICAL HAND HOLE INSTALLATION



AT EVERY HANDHOLE LOCATION WITH A MARKER POST,

1.25" HDPE SHOULD EXTEND 48" INTO MARKER POST. HDPE SHOULD ALSO EXTEND 6" ABOVE GRAVEL AT THE BOTTOM OF THE HANDHOLE.

AT EVERY TEST STATION, BURY GROUND ROD 6" BELOW GROUND AND 6" TO THE LEFT OF MARKER POST

BLACK WIRE BONDED TO 8" GROUND ROD AT TEST STATIONS ONLY

PLACE BLUE TAPE NEAR THE TOP OF HDPE TO INDICATE THE DUCT LEADING TO MARKER POST

NOTES:

- 1. THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS. [66,720 N] OVER A 10 [254] X 10 [254] AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 22,500 LBS. [100,085 N].
2. ALL ENCLOSURES, BOXES AND COVERS, ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF ANSISCTE 77 2007 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" AS MANUFACTURED BY QUAZITE OR EQUIVALENT WITH TELEPAK NETWORK'S ENGINEER'S SIGNED APPROVAL. THE COVERS MUST BE RATED FOR TIER 15 APPLICATIONS AND BOXES RATED FOR TIER 22 APPLICATIONS AND IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFACE TOOLING. ALL COVERS ARE REQUIRED TO HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50 IN ACCORDANCE WITH ASTM C 1028 AND HAVE TIER 15 AND "TELEPAK NETWORKS 800-342-3716" EMBOSSED ON THE TOP SURFACE. ALL COVER BOLTS TO BE SELF-CLEANING AUGER BOLT ASSEMBLIES.

PIGTAILS ARE TO BE INSTALLED AT TEST STATION (T.S.) ONLY.

HANDHOLES ARE TO BE INSTALLED A MINIMUM OF THREE FEET FROM ANY UTILITY OR POWER POLE.

BOXES (Nestable)

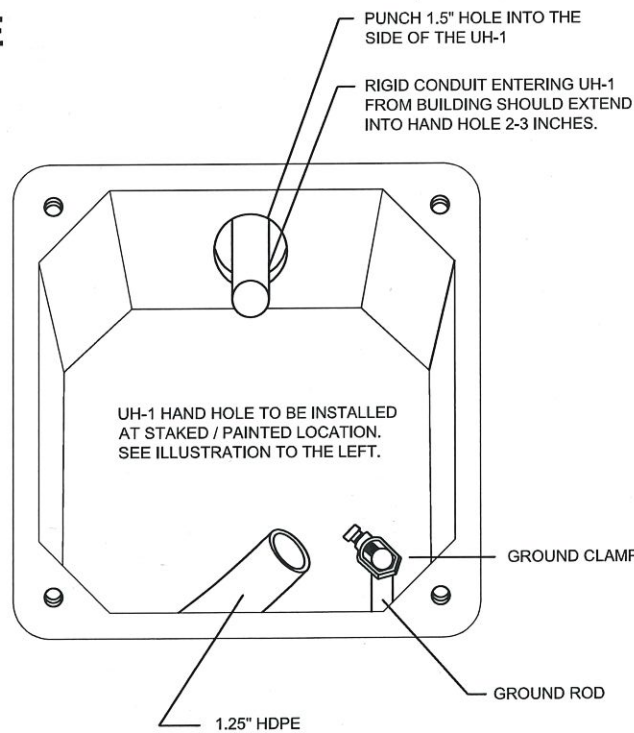
Table with 4 columns: DESCRIPTION, PART NO., WEIGHT, DESIGN/TEST LOAD#. Rows include UH-5 30x60x36, UH-4 30x48x36, and UH-3 24x36x24.

DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

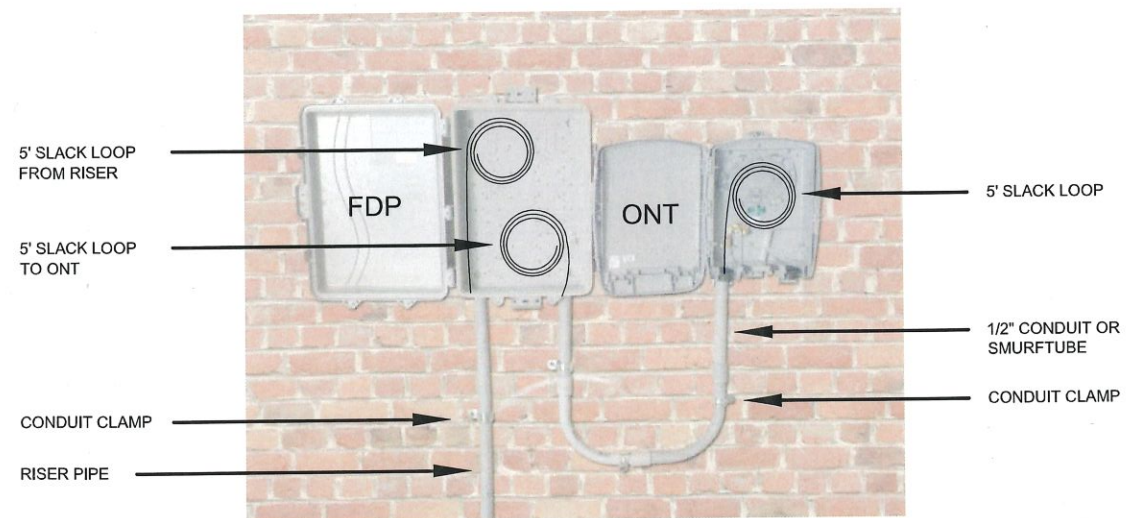
TYPICAL UH-1 / UH-2 HAND HOLE INSTALLATION PROCEDURES AT BUILDING ENTRIES



UH-1 / UH-2 INSTALLATION LOCATION WILL BE MARKED BY A STAKE AND/OR PAINT. CSPIRE/OSP WILL INSTALL CONDUIT 8" UNDERGROUND TO DESIRABLE UH-1 LOCATION.

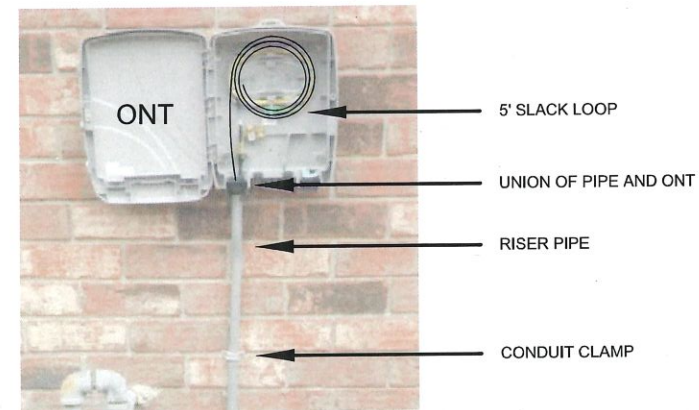


TYPICAL FDP & ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES



- 1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION.
3. DUCT PLACED BY DIRECTIONAL BORING SHOULD MEET RISER PIPE UNDERGROUND NEAR THE BASE OF THE WALL. A 4" GAP BETWEEN THE DUCT AND THE RISER PIPE IS ACCEPTABLE.
4. MOUNT 4" RISER PIPE TO THE WALL USING SHOWN CONDUIT CLAMPS.
5. JOIN RISER PIPE TO FDP AT SHOWN LOCATION & MOUNT FDP TO THE WALL.
6. MOUNT ONT LEAVING ENOUGH SPACE BETWEEN FDP & ONT SO THE COVER MAY OPEN FULLY AS SHOWN
7. PLACE 1/2" CONDUIT FROM FDP TO ONT.
8. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO FDP LEAVING A 5' SLACK LOOP.
9. WITH A SEPARATE 12CT FIBER, LEAVE A 5' SLACK LOOP IN THE FDP AND ENTER THE CONDUIT TO THE ONT.
10. LEAVE 5' OF SLACK INSIDE OF THE ONT. ALL SLACK SHOULD BE LOOSELY STORED AND NOT LOOPED TIGHTLY.

TYPICAL ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES



- 1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION.
3. DUCT PLACED BY DIRECTIONAL BORING SHOULD MEET THE RISER PIPE UNDERGROUND NEAR THE BASE OF THE WALL. A 4" GAP BETWEEN THE DUCT AND THE RISER PIPE IS ACCEPTABLE.
4. MOUNT 4" RISER PIPE TO THE WALL USING SHOWN CONDUIT CLAMPS.
5. JOIN RISER PIPE TO ONT AT SHOWN LOCATION & MOUNT ONT TO THE WALL.
6. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO ONT.
7. LEAVE 5' OF SLACK INSIDE OF THE ONT. SLACK SHOULD BE LOOSELY STORED AND NOT LOOPED TIGHTLY.

Metadata table including FILE NAME (T-06), PROJECT CITY, FULL FILENAME (T-06.dwg), DATE (03-10-16), SHEET (6), SCALE (1"=50'), and PAGE (6).

REVISIONS table with columns for REV., DESCRIPTION, INITIALS, and DATE.

MATERIAL LIST table with columns for ITEM, DESCRIPTION, and QUANTITY. Lists items like TOTAL CABLE FT., DIR-BORE CABLE, PULL CABLE, BURIED SLACK, etc.

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PREPARED FOR CSPIRE logo

MAP NUMBER table with a grid for map coordinates.

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FILE NAME T-07

PROJECT CITY -

FULL FILENAME
T-07.dwg

DATE DESCRIPTION
CONSTRUCTION

SHEET DRAWN BY
7

SCALE PAGE
1"=50' 7

REVISIONS

| REV. | DESCRIPTION | INITIALS | DATE |
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MATERIAL LIST

| ITEM | DESCRIPTION | QUANTITY |
|------|-----------------|----------|
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPlice CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

PREPARED BY



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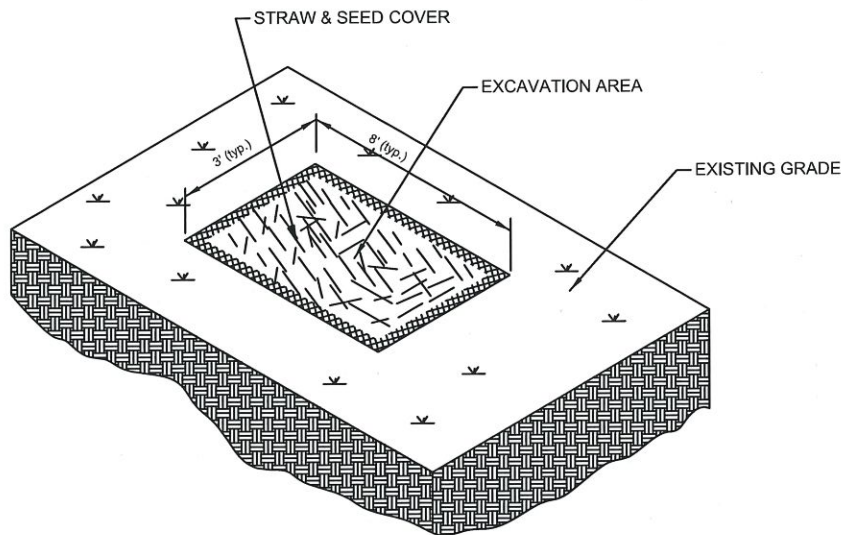


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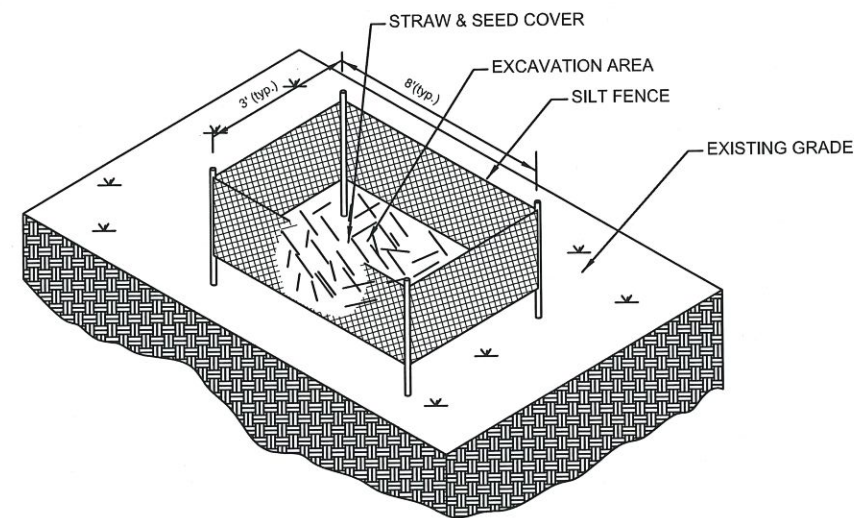
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TYPICAL EROSION DETAIL #1

NOTE TO CONSTRUCTION:

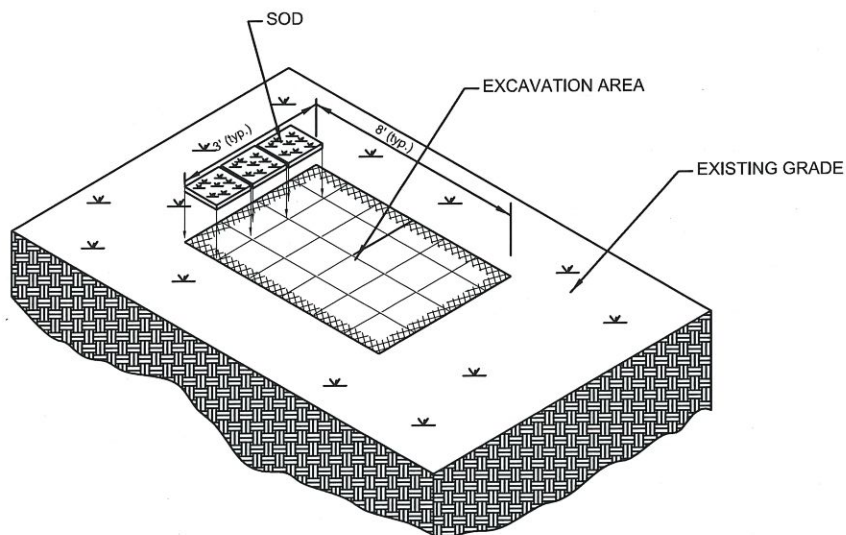
WHERE APPLICABLE
RE-COMPACT SOIL AROUND
HANDHOLES AND BOREPITS
USE HAY AND SEED COVER
FOR EROSION CONTROL.



TYPICAL EROSION DETAIL #2

NOTE TO CONSTRUCTION:

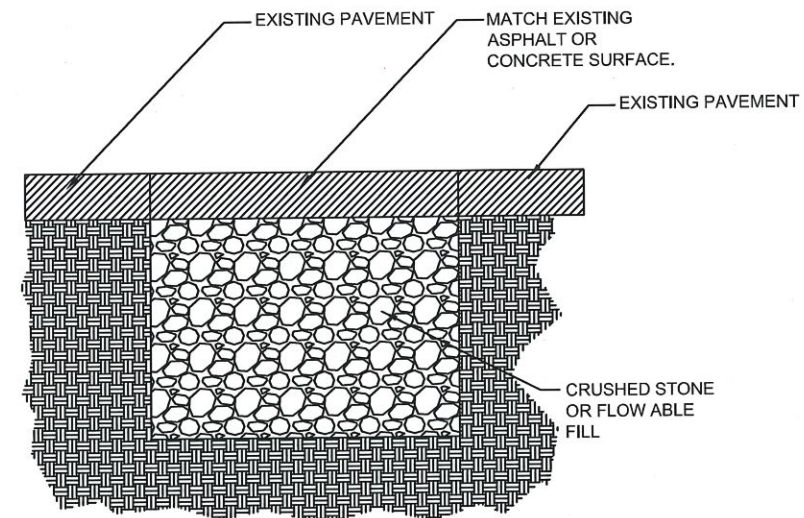
FOR HIGHER DEGREE OF SLOPE
RE-COMPACT SOIL AROUND
HANDHOLES AND BOREPITS. USE
HAY, SEED AND SILT FENCES FOR
EROSION CONTROL.



TYPICAL EROSION DETAIL #3

NOTE TO CONSTRUCTION:

FOR EROSION CONTROL IN
WELL MANICURED AREAS
RE-COMPACT SOIL AROUND
HANDHOLES AND BOREPITS.
RE-SOD TO MATCH EXISTING
GROUND COVER.



TYPICAL PAVEMENT REPAIR

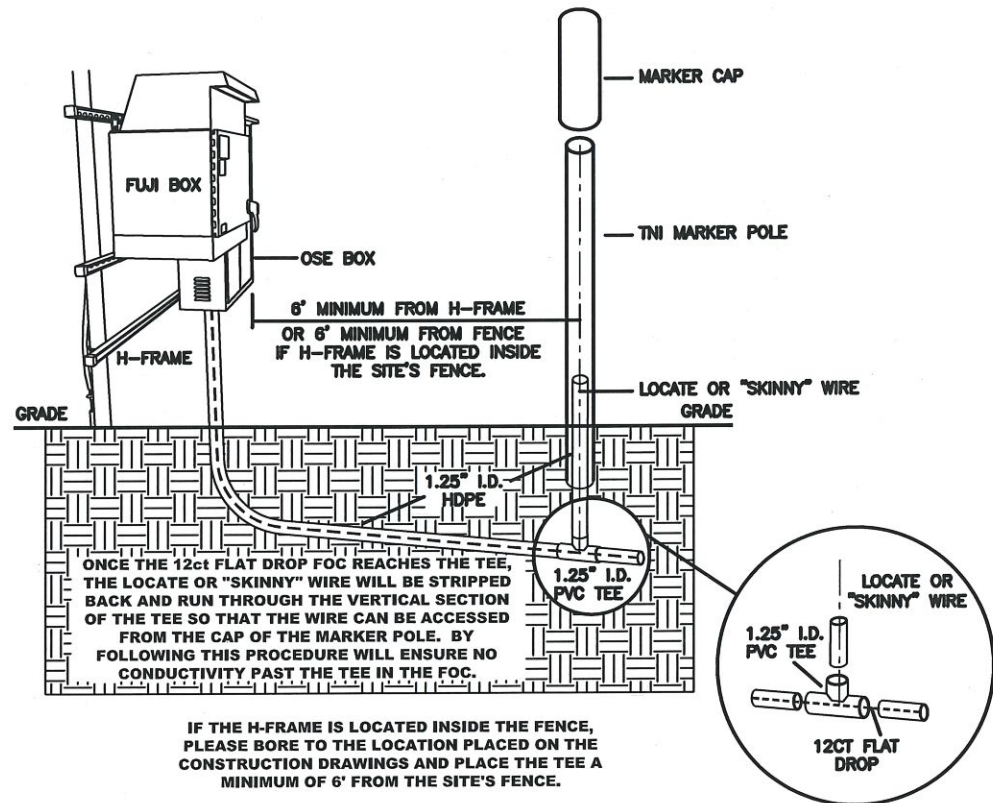
DETAIL #4

NOTE TO CONSTRUCTION:

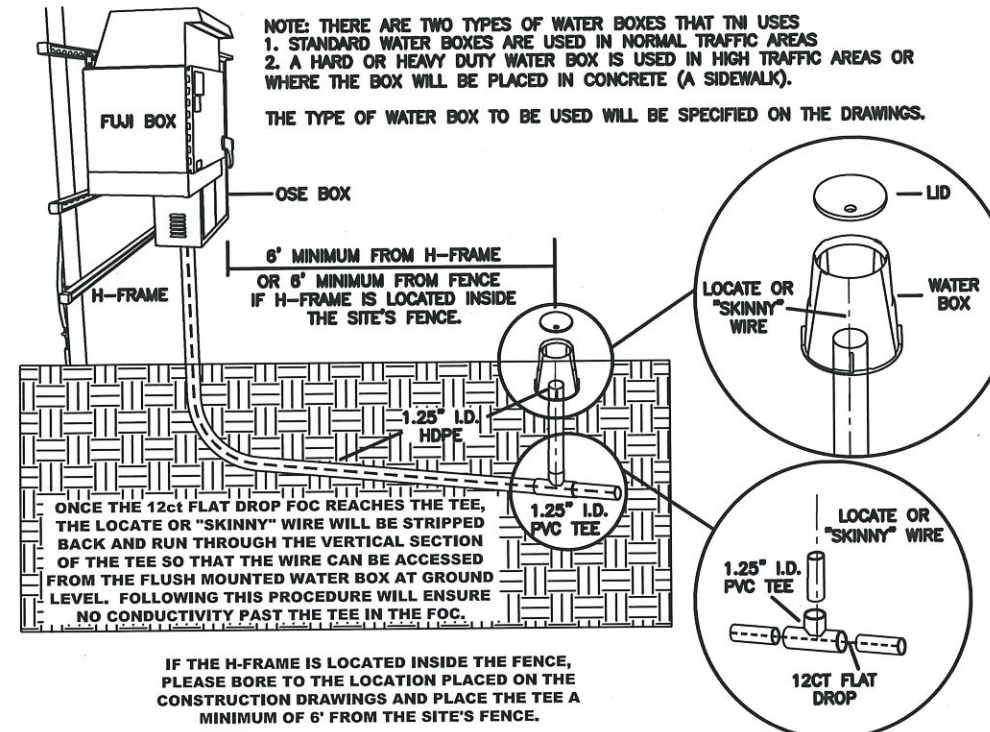
RE-COMPACT EFFECTED
AREAS WITH CRUSHED
STONE OR FLOW ABLE FILL.
MATCH EXISTING PAVEMENT
SURFACE.

NOTIFY ALL UTILITIES 72 HOURS PRIOR
TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477

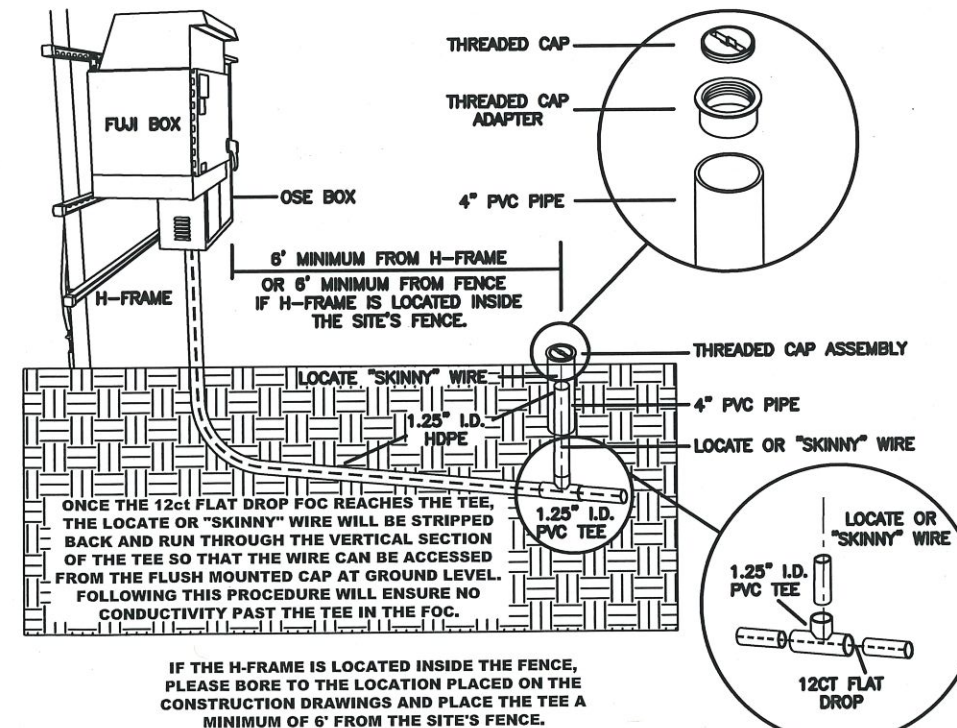
DIELECTRIC TEST STATION (DTS) TYPICALS



FLUSH MOUNTED WATER BOX INSTALLATION OPTION TWO



THREADED PVC FLUSH MOUNTED ACCESS CAP OPTION THREE



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| FILE NAME T-08 | |
| PROJECT CITY - | |
| FULL FILENAME T-08.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 8 | DRAWN BY |
| SCALE 1"=50' | PAGE 8 |

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| MATERIAL LIST | | |
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| ITEM | DESCRIPTION | QUANTITY |
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

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| MAP NUMBER | |
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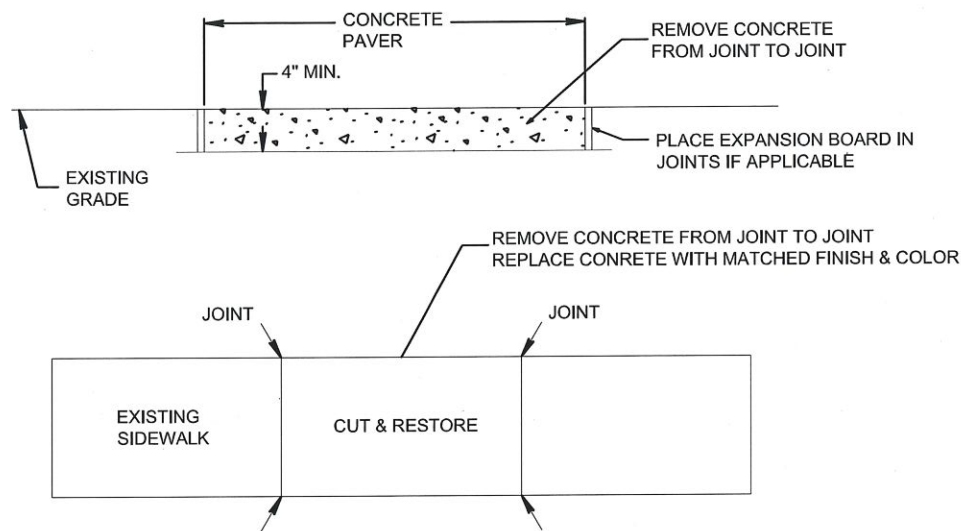
NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
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SIDEWALK CUT & RESTORE TYPICAL DETAIL

SIDEWALK MUST BE ADA COMPLIANT WHERE APPLICABLE

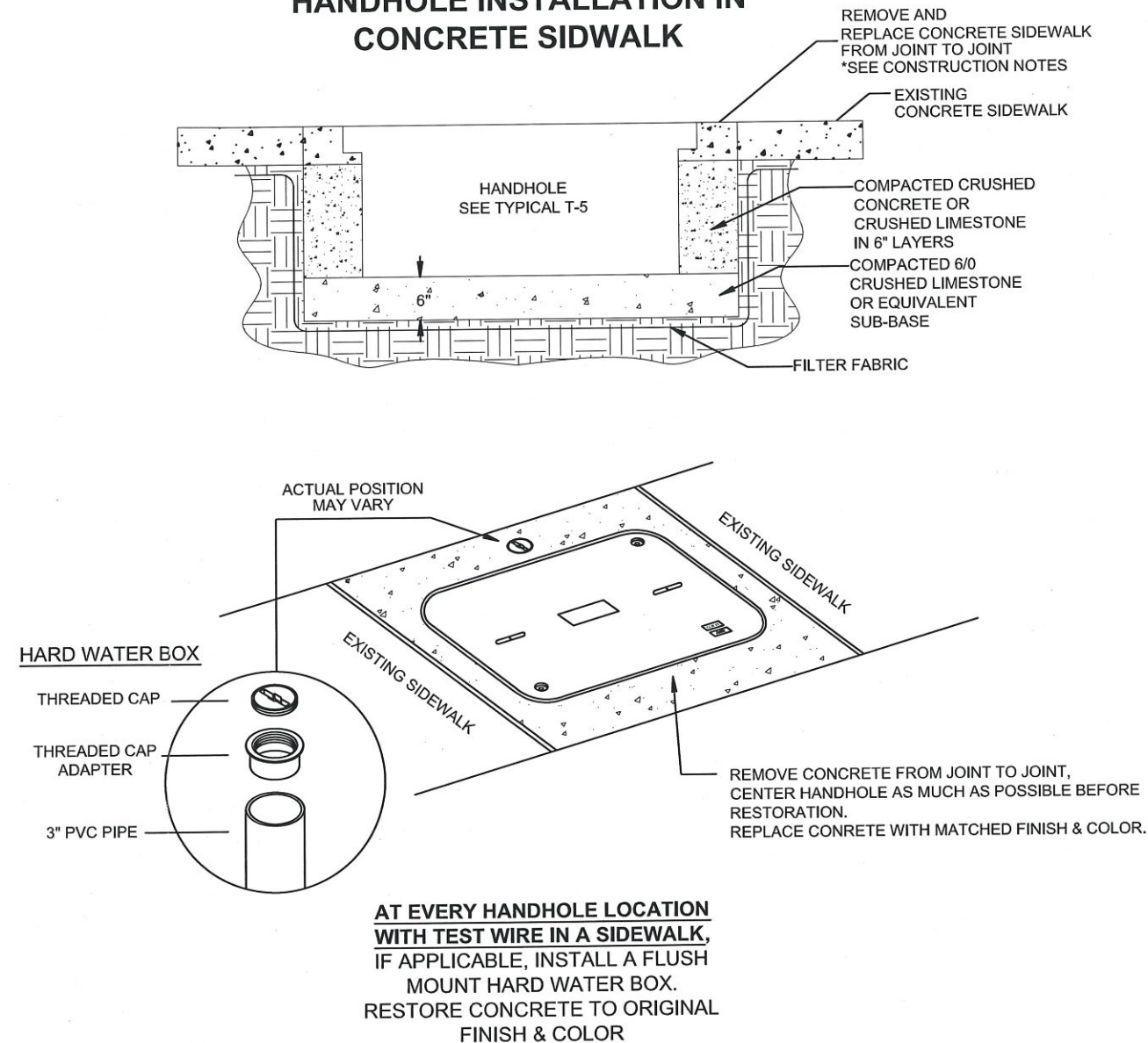
TYPICAL DETAIL "A" CONCRETE CUT & RESTORE REPLACEMENT



CONSTRUCTION NOTES:

1. PROVIDE BARRIERS AND TRAFFIC CONTROL PER MUTCD REV.3 OR NEWER.
2. CUT & RESTORE AREAS SHALL BE RETURNED TO ORIGINAL, OR BETTER CONDITION.
3. SIDEWALKS THAT HAVE EXPANSION BOARD IN USE IN ADJACENT AREAS SHALL BE RESTORED WITH EXPANSION BOARD.
4. EXPOSED AGGREGATE FINISHED SIDEWALKS SHALL BE RESTORED WITH SAME FINISH.
5. ENSURE FINISH IS SLIP RESISTANT.
6. BRICK SIDEWALKS SHALL BE RESTORED TO THE SAME FINISH.
7. ENSURE FLUSH MOUNT TEST STATIONS DO NOT PRESENT A TRIP HAZARD.
8. COVER CONCRETE FOR A MINIMUM OF 12 HOURS PRIOR TO REMOVING PEDESTRIAN BARRIERS.
9. RESTORATION AREA MUST BE RESTORED TO AN OPERATIONAL SIDEWALK PRIOR TO CLOSING ANY CONSTRUCTION PERMITS.

TYPICAL DETAIL "B" HANDHOLE INSTALLATION IN CONCRETE SIDEWALK



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| FILE NAME T-09 | |
| PROJECT CITY - | |
| FULL FILENAME T-09.dwg | |
| DATE | DESCRIPTION CONSTRUCTION |
| SHEET 9 | DRAWN BY |
| SCALE 1"=50' | PAGE 9 |

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| MATERIAL LIST | | |
|---------------|-----------------|----------|
| ITEM | DESCRIPTION | QUANTITY |
| 1 | TOTAL CABLE FT. | 0' |
| 2 | DIR-BORE CABLE | 0' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 0' |
| 5 | 1.25" HDPE | 0' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 0 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 0 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 0 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
| 14 | | |

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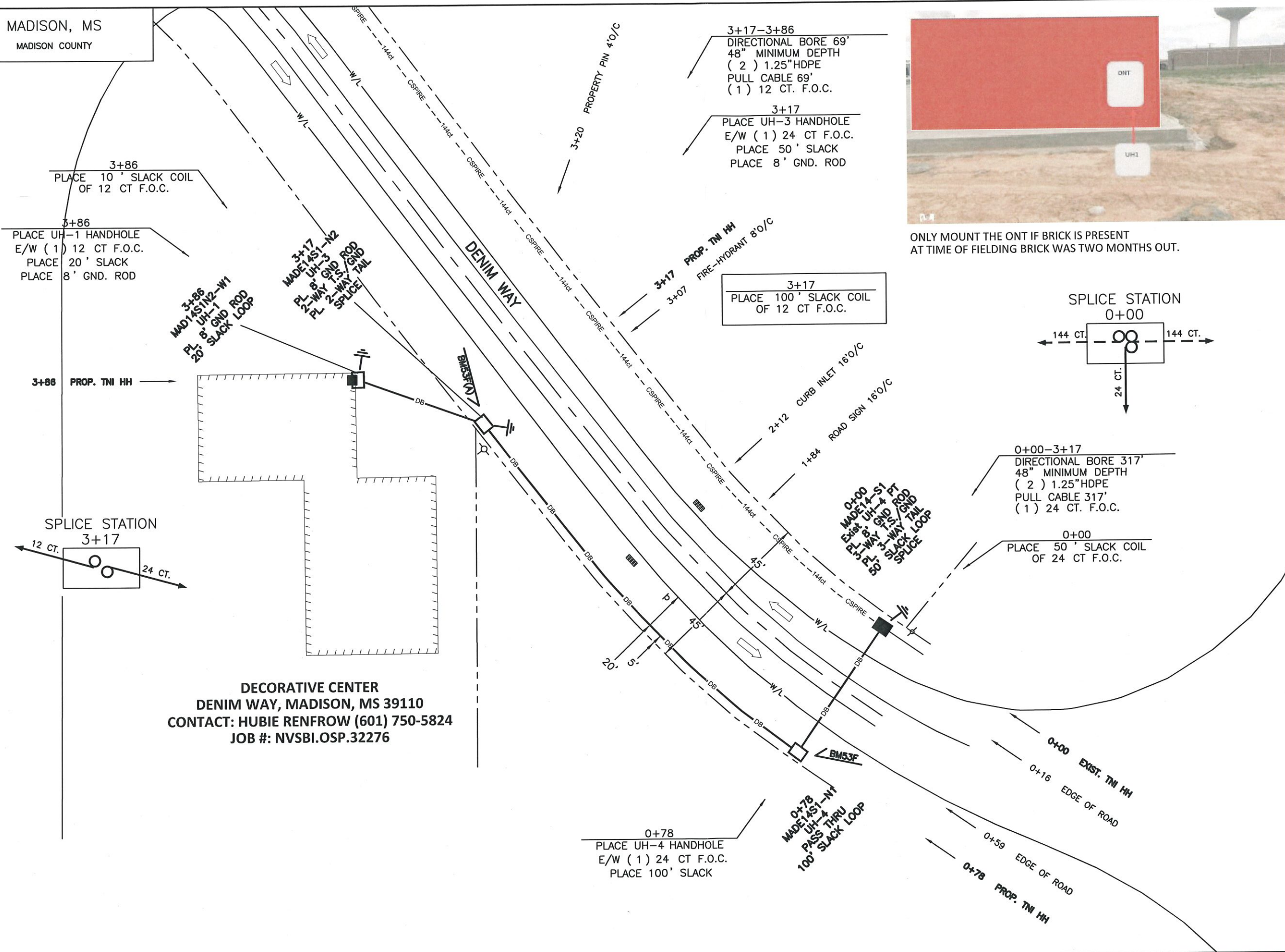
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ONE CALL SYSTEM @ 1-800-227-6477

MADISON, MS
MADISON COUNTY



ONLY MOUNT THE ONT IF BRICK IS PRESENT
AT TIME OF FIELDING BRICK WAS TWO MONTHS OUT.



DECORATIVE CENTER
DENIM WAY, MADISON, MS 39110
CONTACT: HUBIE RENFROW (601) 750-5824
JOB #: NVSBI.OSP.32276



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| FILE NAME DCM-001 | |
| PROJECT CITY - MADISON, MS | |
| FULL FILENAME DCM-001.dwg | |
| DATE 06-19-18 | DESCRIPTION CONSTRUCTION |
| SHEET 001 | DRAWN BY D.SANDERS |
| SCALE 1"=50' | PAGE 001 |

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| MATERIAL LIST | | |
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| ITEM | DESCRIPTION | QUANTITY |
| 1 | TOTAL CABLE FT. | 716' |
| 2 | DIR-BORE CABLE | 386' |
| 3 | PULL CABLE | 0' |
| 4 | BURIED SLACK | 330' |
| 5 | 1.25" HDPE | 772' |
| 6 | 5" HDPE CASING | 0' |
| 7 | HANDHOLES | 3 |
| 8 | MANHOLES | 0 |
| 9 | SPLICE CLOSURE | 2 |
| 10 | H-POSTS | 0 |
| 11 | GROUND RODS | 2 |
| 12 | AERIAL CABLE | 0' |
| 13 | RISERS | 0 |
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| MAP NUMBER | |
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