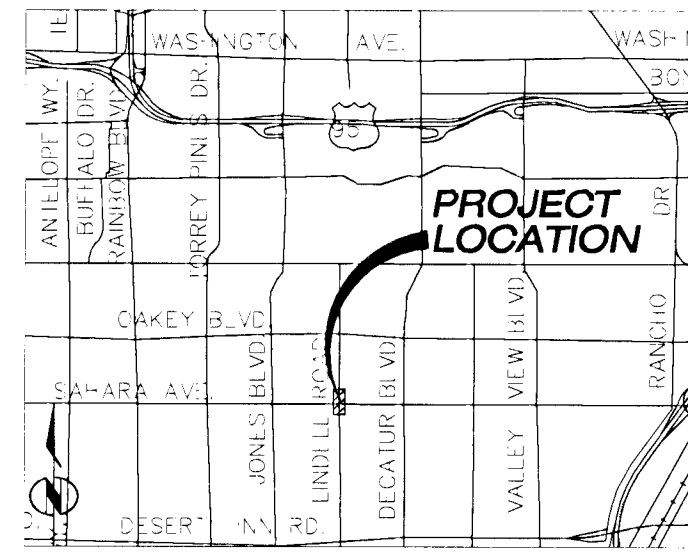




VICINITY MAP  
NOT TO SCALE  
T21S R60E SEC: 01

GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO *tw telecom* AND CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS SPECIFICATIONS.
- ALL CONDUIT, PULL BOXES, MANHOLES, TRENCHING, BACK FILLING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE CONTRACTOR AND CONFORM TO *tw telecom* STANDARDS UNLESS OTHERWISE SPECIFIED.
- TRENCHING AND TELEPHONE BOXES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE. ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN A 3" COVER OVER ALL *tw telecom* FACILITIES AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. NEW AND EXISTING BOXES WILL BE ESTABLISHED TO FINISH GRADE.
- ALL 90° DEGREE BENDS MUST BE A MINIMUM F 48" SWEEP.
- ALL PULL BOXES LARGER THAN 17"x30" AND MANHOLES ARE TO BE GROUND WITH A 3/4" TINNED SOFT COPPER BONDING RIBBON PLACED VERTICALLY AROUND THE BOTTOM OF THE BOX WITH A 3" END STUBBED INSIDE.
- PLYWOOD BACKBOARDS ARE TO BE TREATED WITH A FIRE RETARDANT MATERIAL, PAINT OR SEALER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF A WATER PROOF 400 LB. TENSILE STRENGTH MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCTS IN ALL CONDUIT SECTIONS. ALL OTHER DUCTS WILL HAVE A 3/4" JET LINE PULL STRING WITH 400 LB. TENSILE STRENGTH.
- THE CONTRACTOR SHALL PROVE AND MANDREL ALL CONDUIT AFTER BACK FILLING WHILE A *tw telecom* ENGINEER IS PRESENT. MANDREL SIZE IS TO BE 1" SMALLER THAN THE INSIDE DIAMETER OF CONDUIT.
- IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR ON THE PROJECT, IT IS IMPERATIVE THAT THE CONDUIT DESIGN NOT BE CHANGED WITHOUT THE *tw telecom* ENGINEER'S APPROVAL.
- ALL TERMINALS, BACKBOARDS, CABINETS, ETC., SHALL BE EQUIPPED WITH A #8 GAUGE COPPER GROUND WIRE, ATTACHED TO A COMMON POWER MGN.
- ALL PULL BOXES AND MANHOLES NOT IN A CONCRETE SIDEWALK, WILL BE REQUIRED TO HAVE A PROTECTIVE 8"x8" CONCRETE COLLAR POURED AROUND THE TOP PORTION OF THE BOX AND H-20 LOAD BEARING LIDS.
- ALL CONDUIT ENDS (TERMINATED OR STUBBED) WILL HAVE A TAPERED POLYETHYLENE DUCT PLUG WITH A PULL STRING ATTACHED.
- INSPECTION IS REQUIRED FOR ALL PHASES OF THE JOB. THESE PHASES ARE:
  - \*OPEN TRENCHES AFTER CONDUIT HAS BEEN PLACED.
  - \*OBSERVATION OF BACK FILL AND COMPACTION AS MEETING STANDARDS.
  - \*MANDREL OF CONDUIT.
  - \*WALL OF PULL BOXES AND MANHOLES MUST BE \*CORDED WITH PROPER AMOUNT OF TERMINATIONS.
  - \*GROUNDING OF PULL BOXES AND CONCRETE COLLARS.
  - \*PULL STRING IN ALL CONDUITS.

ALL WORK MUST BE ACCEPTED BY *tw telecom*, AS MEETING *tw telecom* STANDARDS, FOR A CONTRACTOR TO BE PAID AND FOR *tw telecom* TO PLACE ANY TYPE OF TELECOMMUNICATIONS CABLE/FIBER.

LEGEND

- INDICATES EX. UTILITIES & OH CABLE
- PROPOSED 2.3.4 & 6" PVC, SCHEDULE 40
- PROPOSED FIBER
- PROPOSED 1 1/4" HDPE DUCT
- INDICATES CENTER LINE
- INDICATES RIGHT OF WAY
- PROPOSED PULL BOX 3'x5'x4'8"
- PROPOSED PULL BOX 2'6"x4'x3'
- PROPOSED PULL BOX 30"x48"x36"
- ☒ TERMINAL CABINET 36"x36"x6"
- ☒ TERMINAL CABINET 24"x24"x6"
- ☒ TERMINAL CABINET 18"x24"x6"
- ☒ 3/4" PLYWOOD BACKBOARD TREATED WITH A FIRE RETARDANT PAINT OR SEALER. BACKBOARDS SMALLER THAN 4'x8' SHOULD BE MOUNTED 40" ABOVE THE FLOOR.
- #8 COPPER GROUND WIRE ATTACHED TO A POWER MGN.

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Avoid cutting underground utility lines. It's costly.  
**Call before you Dig**  
Dial 811  
Underground Service (USA)

Avoid hitting overhead power lines. It's costly.  
**Call before you Dig**  
CALL 1-702-227-2929

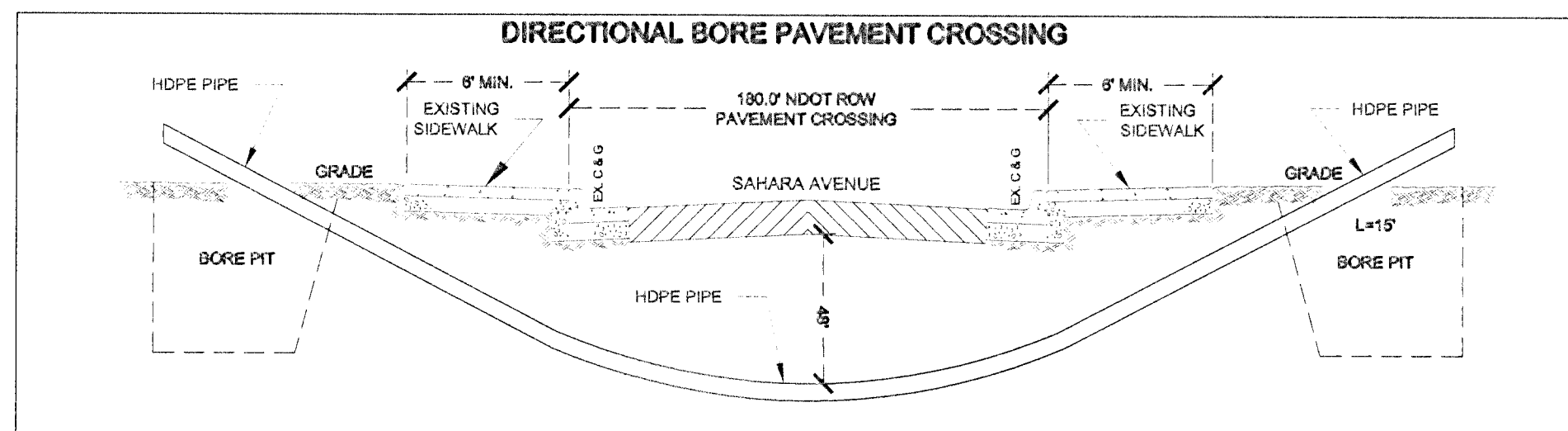
CONSTRUCTION NOTES:  
COORDINATE CONSTRUCTION WITH *tw telecom*. ALL UG CONDUIT TO BE EQUIPPED WITH LOCATE WIRE. MAINTAIN A MINIMUM OF 36" (PLACE BORE PITS AS NECESSARY)

Call before you Dig  
UnderGround  
1-702-432-5200  
FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

General Information  
Parcel No. 163-01-404-022  
5550 W SAHARA AVE  
LAS VEGAS

General Information  
Parcel No. 163-12-103-003  
5555 W SAHARA AVE  
SPRING VALLEY

NOTE: NDOT PERMIT IS REQUIRED.



Contact:  
Hank Schlesinger,  
*tw telecom*  
(702) 216-2233

DETAIL FIBER PLAN  
SCALE: 1"=30'-0"

General Information  
Parcel No. 163-12-501-001  
5485 W SAHARA AVE  
SPRING VALLEY

General Information  
Parcel No. 163-01-810-008  
5450 W SAHARA AVE UT 240  
LAS VEGAS

General Information  
Parcel No. 163-01-810-005  
5470 W SAHARA AVE  
LAS VEGAS

CONSTRUCTION NOTES

- DIRECTIONAL BORE.
- PLACE 1-2" HDPE CONDUIT W/72 CT FIBER.
- R & R 5'x5' SIDEWALK PANEL.
- INSTALL PULL B-38.
- BORE PIT 5'x5'x5'.

NOTE: ALL WORK SHALL COMPLY WITH THE CCAU STANDARDS DRAWINGS.

City of Las Vegas  
APPROVED FOR CONSTRUCTION  
THIS APPROVAL IS FOR WORK IN CLV ROW OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENT FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

Approval: [Signature] Date: 10-25-12  
107V5878-P1B

CITY OF LAS VEGAS PUBLIC WORKS PERMIT  
REQUIRES \*

DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY OF LAS VEGAS (CLV) PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY.

\* *tw telecom* INSPECTOR WILL VERIFY CITY OF LAS VEGAS PERMIT FOR WORK DONE WITHIN CLV RIGHT-OF-WAY.

INSPECTOR: [Signature] DATE: [Signature]

PROJECT NAME: SAHARA AVE. & LINDELL RD. DIRECTIONAL BORE

PROJECT LOCATION: SAHARA AVENUE & LINDELL ROAD

PROJECT NUMBER: TW-12002

*tw telecom* sm

3944 East Silverstri Lane  
Las Vegas, NV 89120  
(702) 216-2299 FAX/SINULE

SHEET

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1 OF 1 SHEETS