



OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE

PROJECT/AFE #: 1708APXX.41

EAST CHARLESTON BOULEVARD (SR 159) FROM SOUTH LAS VEGAS BOULEVARD TO SOUTH 4TH STREET, SOUTH 4TH STREET FROM EAST CHARLESTON BOULEVARD (SR 159) TO GASS AVENUE & GASS AVENUE FROM SOUTH 4TH STREET TO SOUTH CASINO CENTER BOULEVARD

CITY OF LAS VEGAS, NEVADA

HUB: LSV FOREMASTER - CELL SITE: LSV CHELSEA SC

CONSTRUCTION DRAWING 1/11/2019

ENTITY OWNER: MCIMETRO ACCESS TRANSMISSION SERVICES CORP.
D/B/A VERIZON ACCESS TRANSMISSION SERVICE ("VERIZON")

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

3 18 19

APPROVAL BY: L18-02575 100V7589-F18

DATE

CLV NOTE: PROTECT IN PLACE EXISTING STORM DRAIN SYSTEM AND PROPOSED INLETS.

JOB #: LSV CHELSEA SC

1/29/19

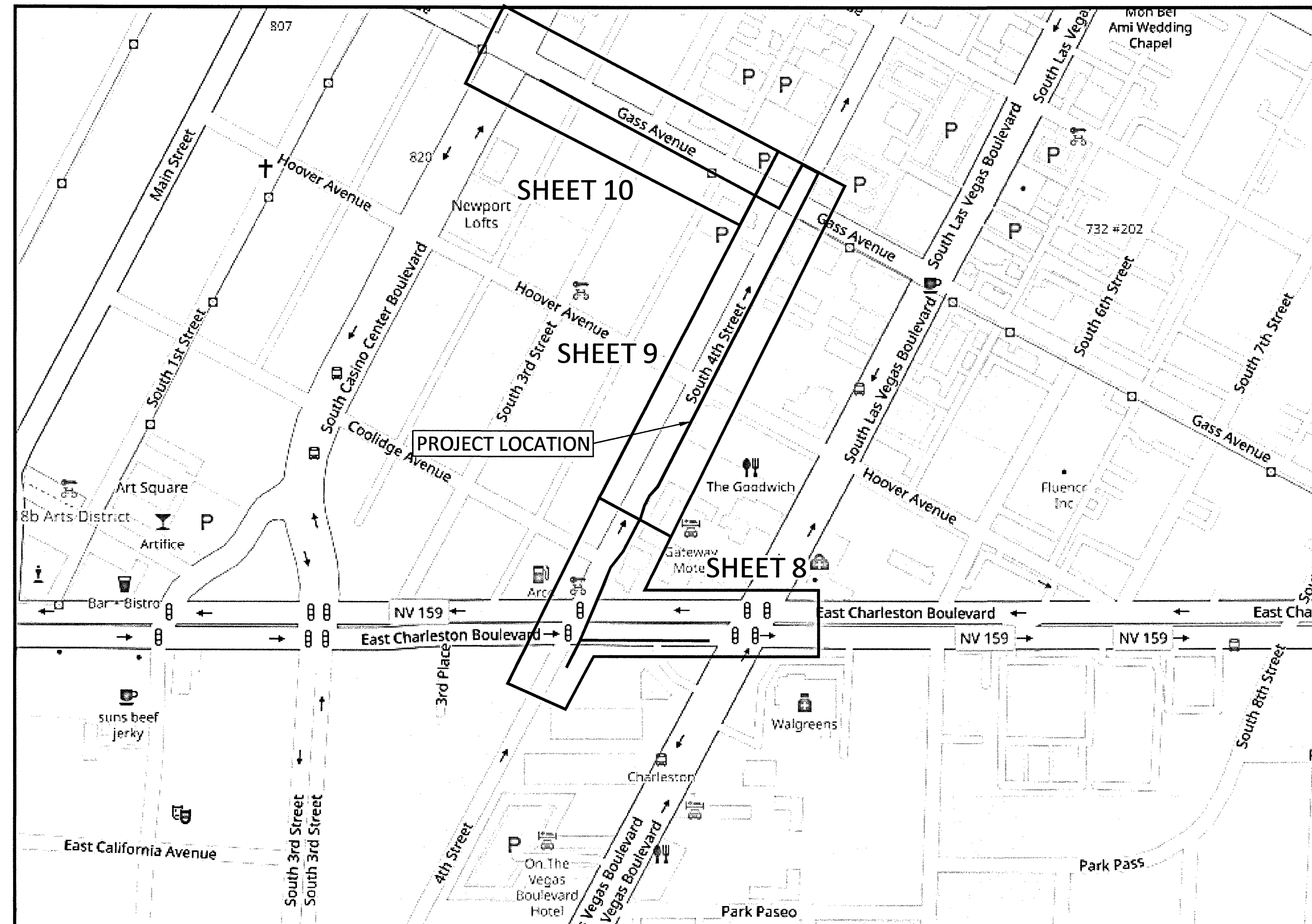
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NORTH

A simple compass rose with four arrows pointing North, South, East, and West. The North arrow is the longest and has a small circle at its base. The other three arrows are shorter and have simple triangular heads. The rose is enclosed in a circle.

CLARIFICATION NO.	QUANTITY
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PROJECT TITLE

REVISIONS

DATE	DESCRIPTION	INITIAL

SCALE

FILE: LSV CHELSEA SC

GENERAL NOTES / CLARIFICATION NOTES

CITY OF LAS VEGAS GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLICWORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHENWORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTIONTHEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTSWHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANYWORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLEWHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDEWITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOODWORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN ANDWHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATESWHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- OR
- SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.
24. REVISED 02/03/15

GENERAL NOTES

1. *WORLDCOM COMPRISES THE FOLLOWING OPERATING ENTITIES:
- BROOKS FIBER PROPERTIES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC
 - SOUTHERNET, INC.
 - MCI WORLDCOM NETWORK SERVICES, INC.

- MFS TELECOM, INC.
 - TELECOM*USA, INC.
 - SOUTHERNET SYSTEMS, INC.
 - MCI WORLDCOM NETWORK SERVICES OF VIRGINIA (COMPRISES MCI TELECOMMUNICATIONS CORP. (MCI LD)
 - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
- *THE WORLDCOM FACILITIES WITHIN THIS CONSTRUCTION PACKAGE ARE HELD BY THE OPERATING ENTITY(IES) INDICATED IN BOLD TYPE.
2. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, WORLDCOM TELECOMMUNICATIONS CORPORATIONS, AND THE RIGHT-OF-WAY GRANTOR.
3. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
4. 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 THE EVENT OF CONFLICT.
5. 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.
6. 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 CONDITION.
7. EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXPECTATIONS.
8. SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.
9. BURIED CABLE MARKERS WILL BE PLACED AT ALL UNDERGROUND UTILITY LOCATIONS AND ALL OTHER LOCATIONS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THE OUTSIDE PLANT HANDBOOK.
10. ALL 4" ID CONDUIT WILL BE SCHEDULE 40 (EG: PVC OR GSP/BSP), OR AS SPECIFIED.
11. UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

ADDENDUM NOTES

CLARIFICATION NOTES

1. STATION

2. REFERENCE ORDER NUMBER

3. CLARIFICATION NO. AND/OR MINIMUM COVER

4. CLARIFICATION NO.

5. CLARIFICATION NO. AND/OR FOOTAGE

6. CLARIFICATION NO. AND/OR FOOTAGE

7. SPECIFIED CONDUIT, HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO. AND RAILROAD STATION, MATERIAL, POLE NO.
1.

2.

3.

4.

5.

6.

7.

- 110 JACK AND DRY BORE CONDUIT(S)

210 PLACE CONDUIT

212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)

213 ROCK ADDER

214 SLURRY BACKFILL ADDER

215 EXPOSE CONDUIT

216 EXPOSE COMDUIT AND RELOCATE

217 EXPOSE CONDUIT AND REPLACE/SUBSTITUTE

218 EXPOSE AND REMOVE CONDUIT

219 EXPOSE AND REMOVE CONDUIT (ABANDONED)

220 CONCRETE ENCASE

221 REMOVE CONCRETE ENCASEMENT

222 REMOVE CONCRETE CAP

240 PLACE HANDHOLE

244 REMOVE EXISTING HANDHOLE

245 RELOCATE HANHOLE

REPLACE/SUBSTITUTE HANDHOLE

247 EXCAVATE SPLICE PIT

250 PLACE MANHOLE

252 REMOVE EXISTING MANHOLE

255 RELOCATE PRECAST MANHOLE

256 REPLACE/SUBSTITUTE PRECAST MANHOLE

260 CONSTRUCT WALL

270 REMOVE AND RESTORE ASPHALT

280 REMOVE AND RESTORE CONCRETE

281 REMOVE AND RESTORE SIDEWALK

282 REMOVE AND RESTORE CURBING

310 ATTACH CONDUIT TO WALL OR STRUCTURE

315 DETACH CONDUIT FROM WALL OR STRUCTURE

320 CORE BORE

330 ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

410 PULL CABLE

411 PULL THROUGH DUCT (INNERDUCT)

415 REMOVE CABLE FROM CONDUIT

420 REPOSITION ACTIVE CABLE SLACK

510 DIRECT BURY CABLE

515 EXPOSE DIRECT BURIED CABLE

516 EXPOSE DIRECT BURIED CABLE AND RELOCATE

517 REMOVE AND DISPOSE OF CABLE

520 PLACE AERIAL CABLE

525 RELOCATE AERIAL CABLE

526 DELASH AERIAL CABLE

527 RELASH AERIAL CABLE

528 REMOVE AERIAL CABLE

530 PLACE POLE/PUSH BRACE

535 REMOVE POLE/PUSH BRACE

610 JETTING CONDUIT

620 EMBEDMENT PLOW

630 DIRECTIONAL BORE

710 PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM WATER CROSSING SIGNS

711 PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING HANDHOLES/MANHOLES

712 REMOVE BURIED CABLE MARKER POST/HARDWARE

714 REMOVE CONCRETE BURIED CABLE MARKER POST



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

MCI COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV CHELSEA SC

PROJECT TITLE

DATE: 1/11/2019

DRAWN BY: JJAMES

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

SHEET 2 OF 11

FILE: LSV CHELSEA SC

NOTES CONTINUED/CONTACT SHEET

GROUNDING NOTES

11.4 HANDHOLE/MANHOLE GROUNDING

All splice handholes/manholes will be grounded to conform with the MCI typical engineering drawing shown in Appendix A.

MCI-furnished materials:

- One 5/8-inch x 8-foot copper-clad steel ground rod equipped with a 15-foot #6 AWG pigtail
- One surge arrester handhole
- One isolator/protector system with 30 foot harness for use on a straight splice, or
- One isolator/protector system with 30-foot harness system for use at splices with a spur cable.

11.5 AERIAL CABLE GROUNDING

Cable sheath to strand bonds and grounding as required by National Electrical Code and Power Company Codes are required at all riser locations of an aerial segment.

Bond cable sheath and suspension strand to multi-ground neutral (MGN) vertical grounding conductor if one exists; if not, use a driven ground rod or a non-insulated guy.

A guy may also require grounding. This is determined by establishing the exposure status (exposed or unexposed) of the guy.

All exposed guys must be either grounded or insulated. A guy is exposed if:

- It is attached to the same pole as open power conductors or spacer cable of any voltage.
- It crosses such power conductors.
- It is within ten feet horizontally (and any distance vertically) of such power conductors.

Grounding is the preferred treatment for exposed guys, except for the following cases in which they must be insulated:

- The MCI guy fastened to the pole in power company working space and a grounded guy would offer an additional hazard to power company linemen.
- Within 1/2-mile of a power station.
- Where electrolytic corrosion of anchors has occurred (unexposed guys, in this case must be separated from the cable strand at the pole, and electrical connection through hardware must be avoided).

Adequate grounding for MCI guys may be obtained through connection to any of the following:

- Vertical grounding conductor of power system multi-ground neutral (with permission of the power company).
- Suspension strand of grounded MCI cable.
- Common anchor rod with a power guy that is connected to the multi-grounded neutral.

Unexposed guys need not be grounded for protection reasons; however, connecting anchor guys to a grounded MCI strand is recommended, as it will lower the cable-to-ground impedance. This helps to reduce cable damage caused by lightning.

MCI metro Access Transmission Services Corp
d/b/a Verizon Access Transmission Service (Verizon)

OUTSIDE PLANT ENGINEERING:

PROJECT ENGINEER: CORY VANDENBOS
SUPERVISOR: N/A
MANAGER: N/A

OUTSIDE PLANT CONSTRUCTION:

PROJECT SUPERVISOR:
FIELD CONST. SUPERINTENDENT:
MANAGER: N/A

RIGHT-OF-WAY:

AGENT:
MANAGER:

CONTRACTS:

COORDINATOR: N/A
MANAGER: N/A

OTHERS:

PROGRAM MANAGER: N/A
LIGHTWAVE ENGINEER: N/A
CIVIL ENGINEER: N/A
TERMINAL CONST. REP: N/A
SPLICING MANAGER: N/A
TSO MANAGER: N/A

ENGINEERING CONTRACTOR

NAME OF FIRM: BPG DESIGNS 1-602-954-2223
PROJECT MANAGER: CORY VANDENBOS 1-602-739-8813
ENG. PROJECT SUPERVISOR:

CONSTRUCTION CONTRACTOR

NAME OF FIRM: TEAM FISHEL 1-702-644-4565
PROJECT COORDINATOR:

CITY GOVERNMENT

BUREAU OF ENGINEERING:

CITY ENGINEER:

UTILITIES

WORLD COM UTILITY LOCATE 1-800-624-9675
USA NORTH BLUESTAKE 811

PROJECT TOTALS SUMMARY

MATERIALS

2" HDPE CONDUIT(S): 3,026'
4" HDPE CONDUIT(S): -
2' x 3' x 2' HANDHOLE(S): 1
2.5' x 5' x 2.5' HANDHOLE(S): 6
4' x 4' x 4' HANDHOLE(S): -
MANHOLES: -

WORK TYPE

AERIAL: -
VZW CONDUIT: -
3RD PARTY CONDUIT: 652'
TRENCH: 1,875'
ASPHALT CUT: -
BORE: 116'

TOTAL NEW UG FOOTAGE: 1,991'
TOTAL FOOTAGE: 2,643'



CELL SITE: LSV CHELSEA SC

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SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

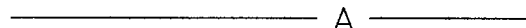
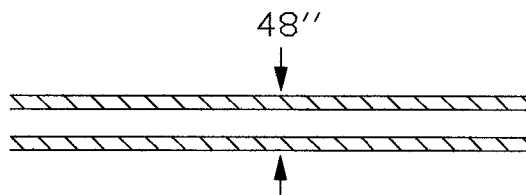
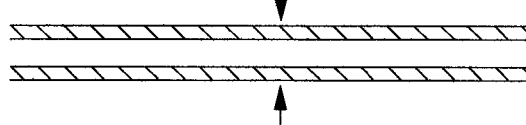
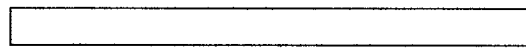
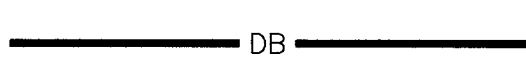
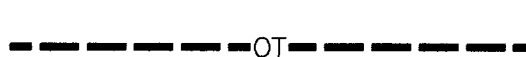
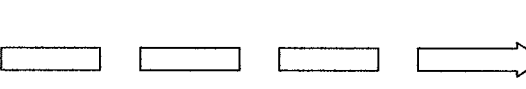
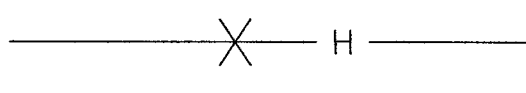
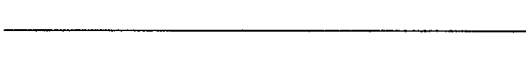
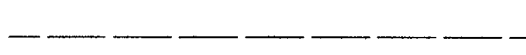
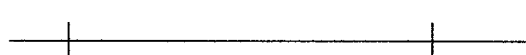
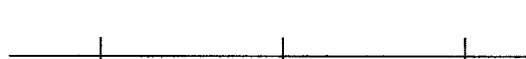
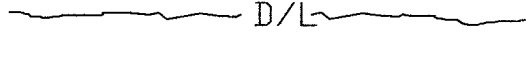
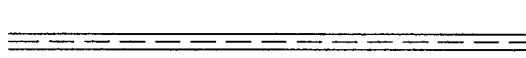
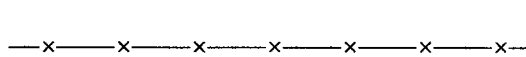
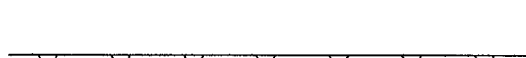
SHEET 3 OF 11

FILE: LSV CHELSEA SC

0 10 20 30 40 50

DRAWING SCALE IS IN FEET:
(1"=60' AT 11"x17" print)
(1"=30' AT 24"x36" print)

SYMBOLS KEY

BURIED CABLE	
AERIAL CABLE	
SUBMARINE CABLE	
FOGWIRE CABLE	
DIRECT BURIED HDPE	
PVC OR SPLIT PVC CONDUIT	
BSP/GSP OR SPLIT BSP/GSP CONDUIT	
STEEL CASING	 
REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED)	
CORE BORE	
JACK AND BORE	
DIRECTIONAL BORE	
OPEN TRENCH	
FUTURE CABLE	
REMOVE CABLE	
TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)	
AERIAL UTILITY (ELECTRIC)	
UNDERGROUND UTILITY (TELEPHONE)	
MAIN TRACKS	
AUXILLARY TRACKS	
CENTERLINE	
RIGHT-OF-WAY	
DITCH LINE	 
CITY, COUNTY OR STATE BOUNDARY LINE	
PROPERTY LINE	
BLOCKWALL	
FENCE LINE	
GUARDRAIL	
TOP OF SLOPE	
TOE OF SLOPE	

STEEL MARKER AND SIGN-(A)
ALUMINUM "HUB"-STYLE MARKER-(B)
FLAT MARKER-(C)
TUBULAR MARKER-(D)
TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)

MILE POST MARKER
NOTE:
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

UTILITY COVER DEPTH

HANDHOLE, VAULT OR PULLBOX

STREET LIGHT

WOOD POLE & STEEL POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

RISER POLE

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

METER

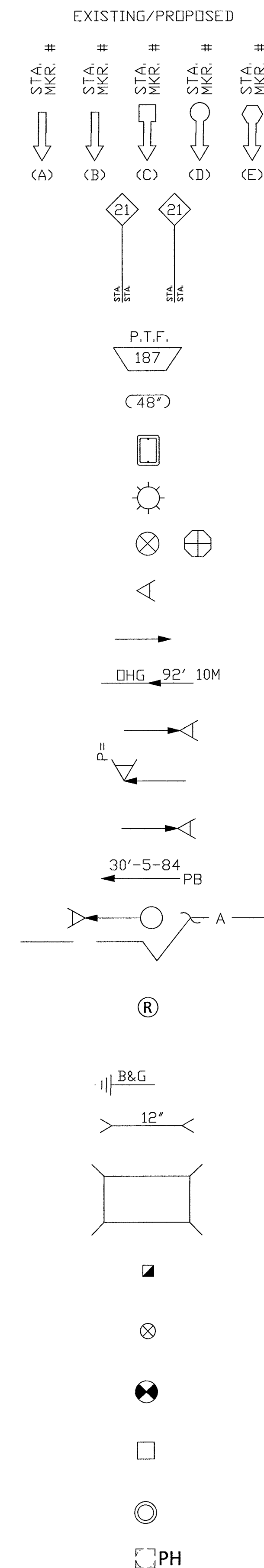
VALVE

FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

MANHOLE

POTHOLE



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
-------------------	----------

[illegible]

MCI COMMUNICATIONS SERVICES, INC.	OUTSIDE PLANT CONSTRUCTION	TITLE: CELL SITE: LSV CHELSEA SC
PROJECT TITLE		

DATE: 1/11/2019

DRAWN BY: JJAMES

[illegible]

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=30'

VERTICAL:	NA
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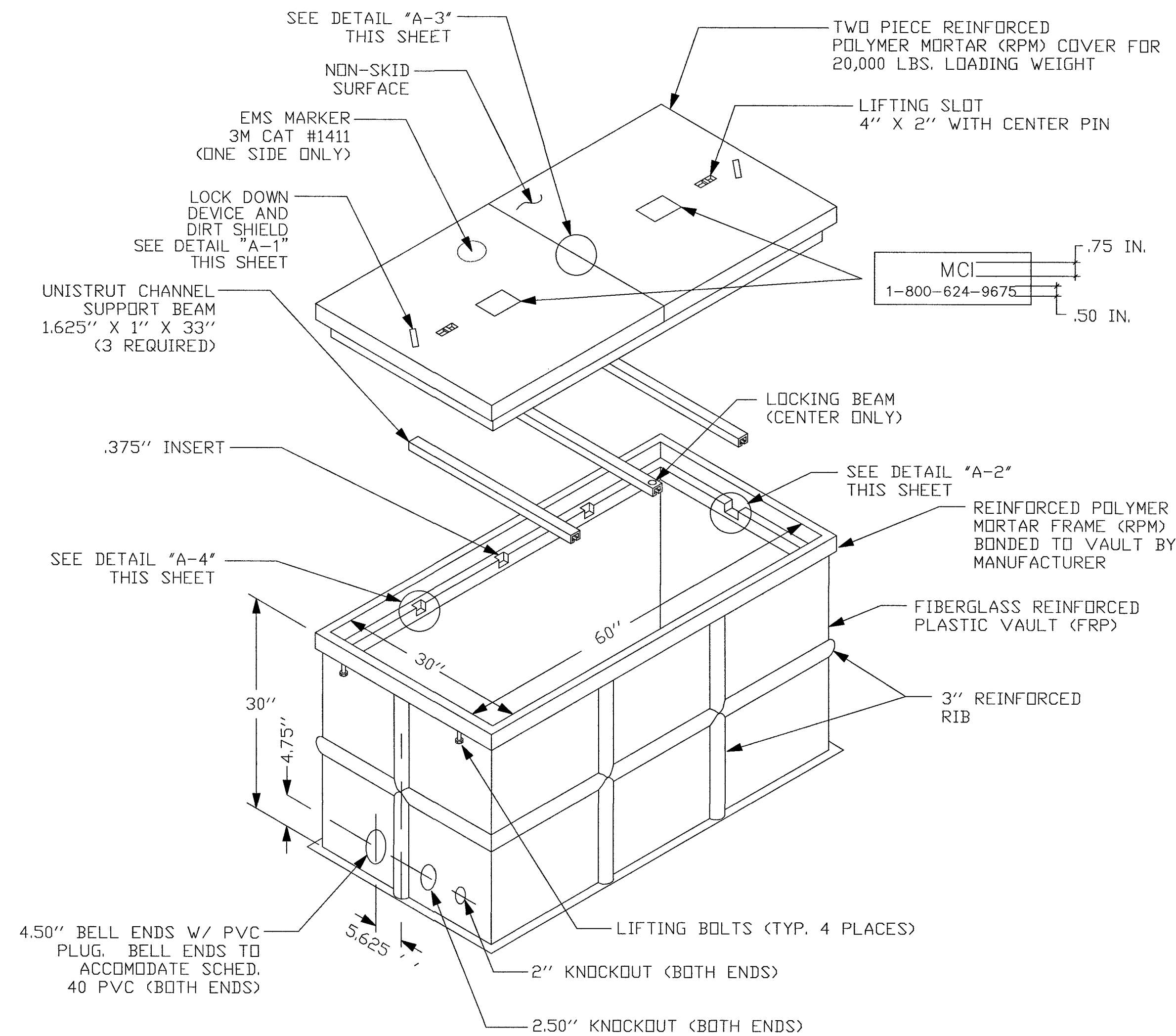
MP _____ TO MP _____

SHEET 4 OF 11

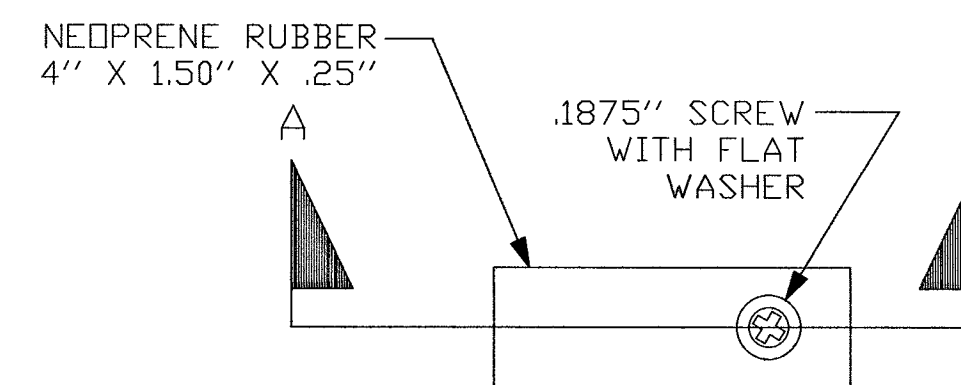
FILE: LSV CHELSEA SC

2.5' x 5' x 2.5' HANDHOLE DETAILS

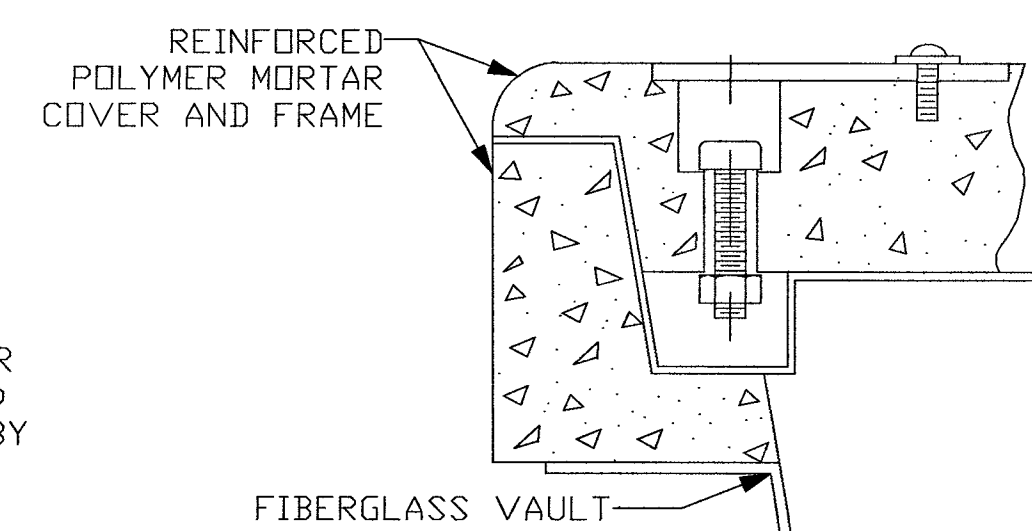
DETAIL "A"
EXPLODED ISOMETRIC DETAIL



DETAIL "A-1"
LOCK DOWN DEVICE

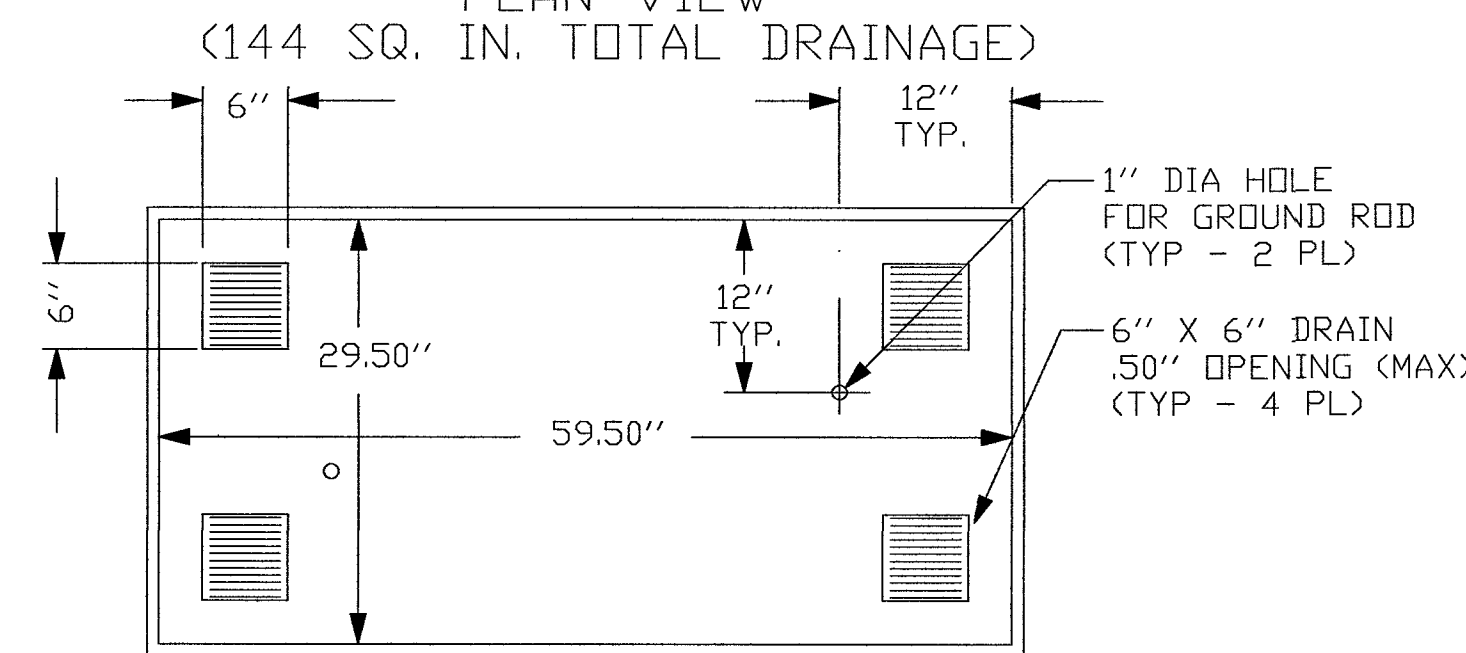


SECTION A-A
LOCKING DEVICE CROSS SECTION



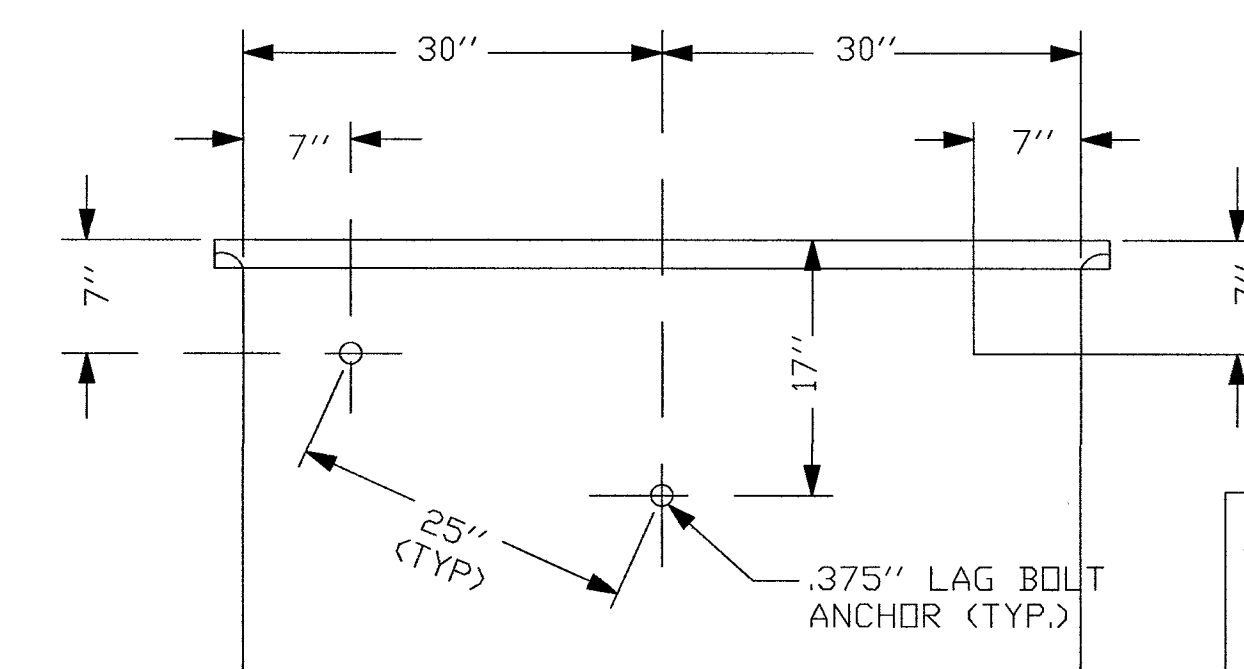
DETAIL "B"

VAULT BOTTOM PLAN VIEW



DETAIL "D"

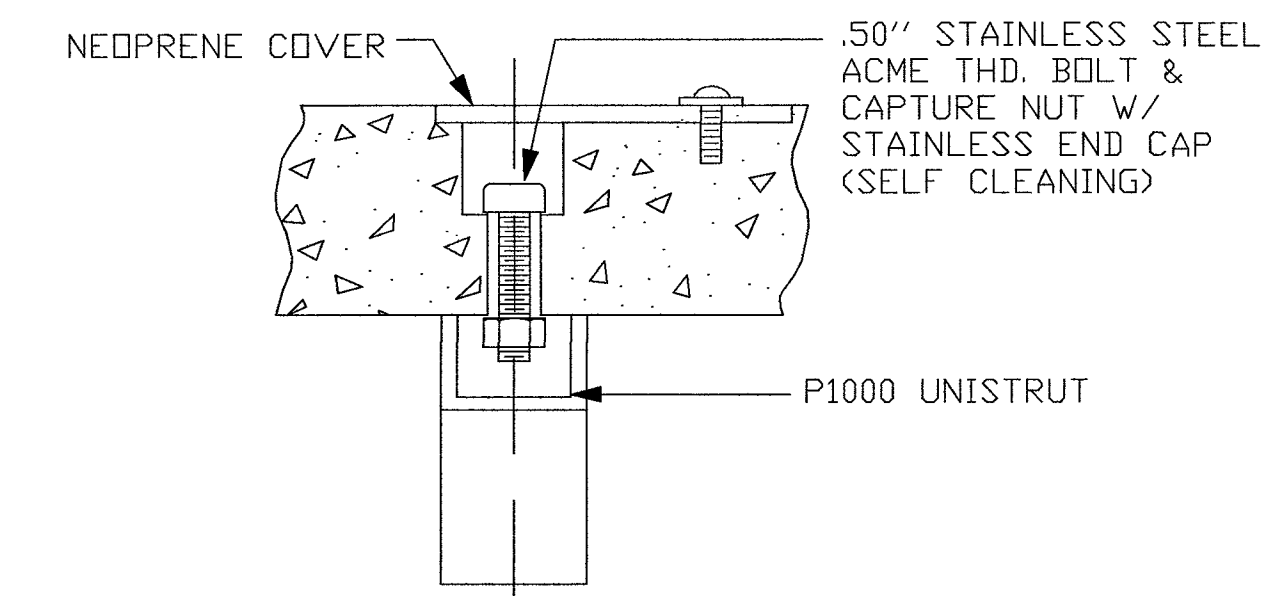
SIDE WALL VIEW INSIDE LOOKING OUT



NOTE:
LINEAR DISTANCE BETWEEN LAG BOLT ANCHORS MUST BE 25".

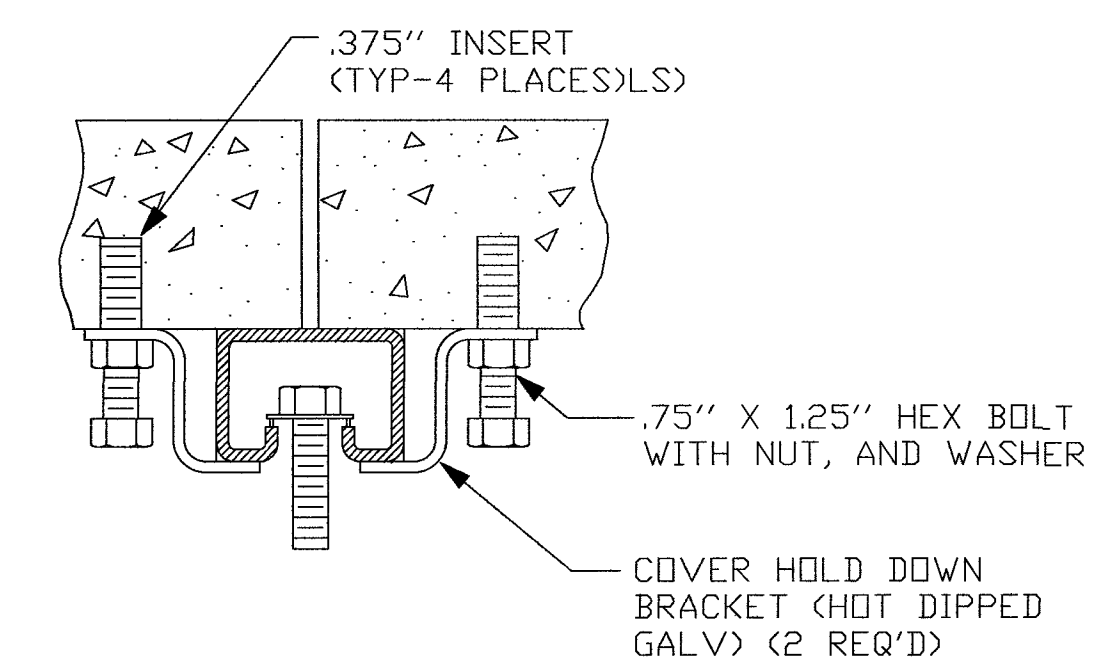
DETAIL "A-2"

ENGAGED LOCK DOWN DEVICE



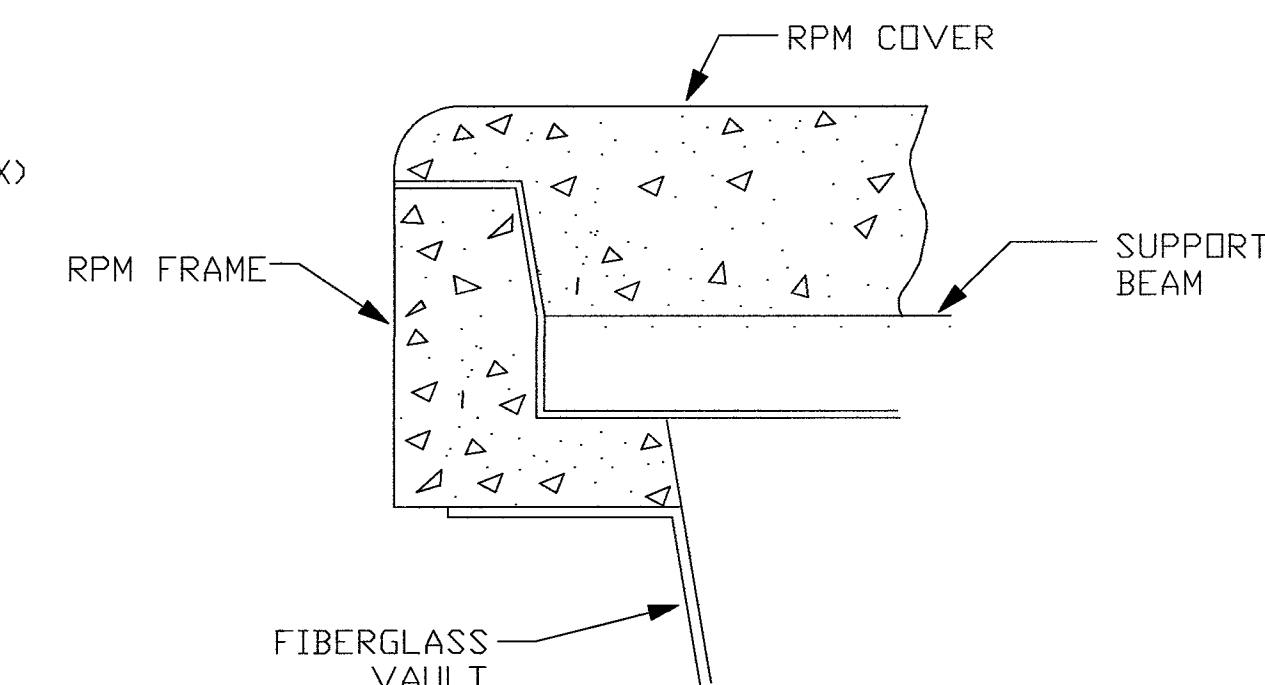
DETAIL "A-3"

COVER HOLD DOWN BRACKET OF 2-PIECE RPM COVER



DETAIL "A-4"

SUPPORT BEAM INSTALLATION (TYP. AT 6 PLACES)



NOTES:

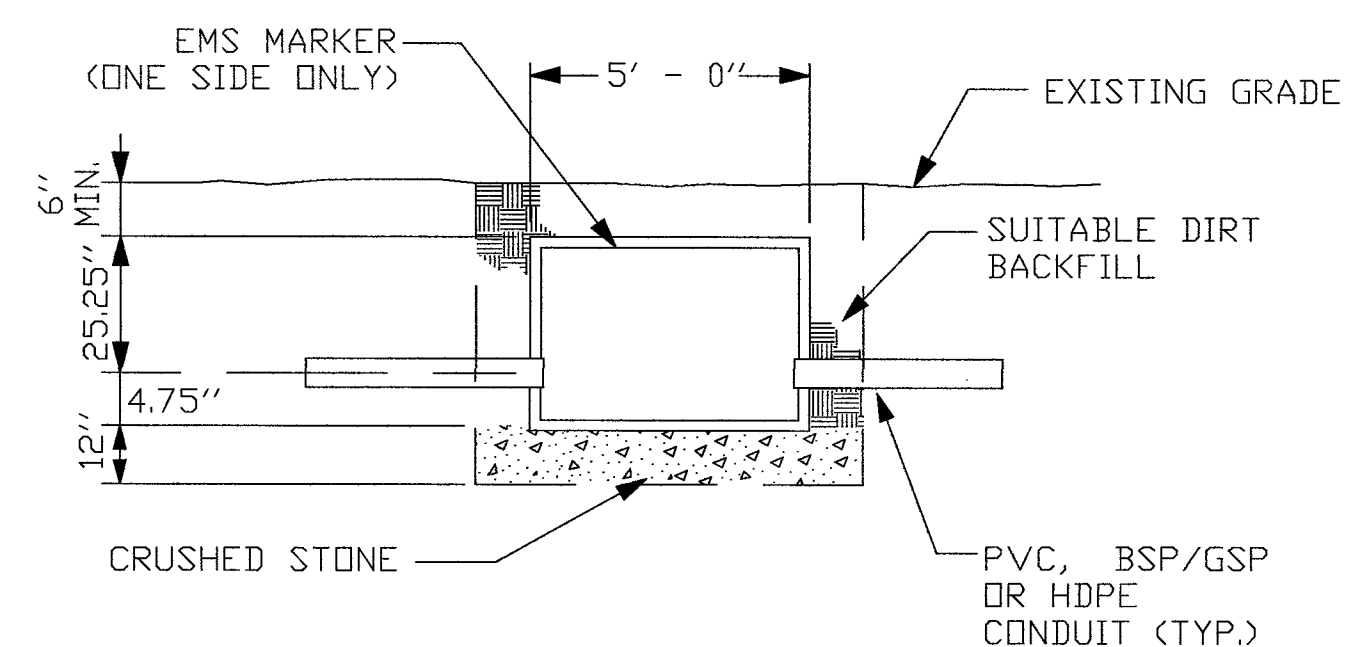
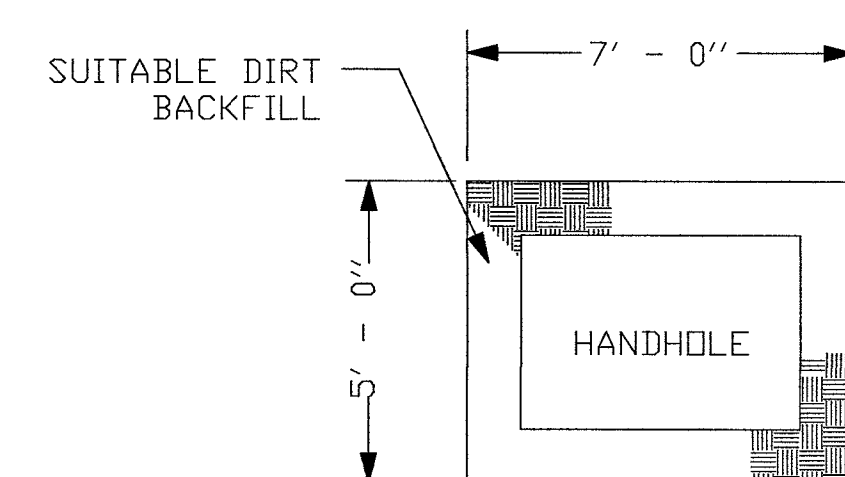
1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (.75" GRADE).
3. SHORING WILL BE REQUIRED.
4. ALL HANDHOLES SHALL BE PLACED BELOW EXISTING GRADE.
5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL, APPROXIMATELY POUNDS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL, EACH APPROXIMATELY POUNDS.

DETAIL "C"

EXCAVATION PIT

PLAN

PROFILE



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

COMMUNICATIONS SERVICES, INC.
OUTSIDE PLANT CONSTRUCTION
TITLE: CELL SITE: LSV CHELSEA SC
PROJECT TITLE

DATE: 1/11/2019

DRAWN BY: JJAMES

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

SHEET 6 OF 11

FILE: LSV CHELSEA SC



BOX AND COVER ASSEMBLY MEET
ANSI/SCTE 77 TIER 15 LOADING



ARMORCAST® PRODUCTS COMPANY

217

POTHOLE PROFILE



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
-------------------	----------

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV CHELSEA SC

PROJECT TITLE

DATE: 1/11/2019

DRAWN BY: JJAMES

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: $1''=30'$

VERTICAL: NA

MP	TO MP
----	-------

SHEET 7 OF 11

FILE: LSV CHELSEA SC

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

1	500.1.	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
2	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRAVERSE CUT
3	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
4	500.4	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
5	500.5	OVER 5 YEARS PAVEMENT RESTORATION TRAVERSE ALL R.O.W WIDTHS
6	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W
7	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W
8	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
9	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
10	503.2	METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS
11	234	SIDEWALK
12	BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.	

210 PLACE CONDUIT
212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
240 PLACE HANDHOLE
250 PLACE MANHOLE
270 REMOVE AND RESTORE ASPHALT
280 REMOVE AND RESTORE CONCRETE
281 REMOVE AND RESTORE SIDEWALK
282 REMOVE AND RESTORE CURBING
410 PULL CABLE
411 PULL THROUGH DUCT (INNERDUCT)
520 PLACE AERIAL CABLE
630 DIRECTIONAL BORE

DRAWING SCALE IS IN FEET:
1"=60' AT 11"x17" print 1"=30' AT 24"x36" print



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION	NO.	QUANTITY
SHEET TOTAL		
2" HDPE CONDUIT:		1,070'
4" HDPE CONDUIT:		-
2' x 3' x 2' HANDHOLE(S):		-
2.5' x 5' x 2.5' HANDHOLE(S):		3
4' x 5' x 4' HANDHOLE(S):		-
MANHOLE(S):		-
AERIAL:		-
VZW CONDUIT:		-
3RD PARTY CONDUIT:		-
TRENCH:		623'
BORE:		116'
TOTAL NEW UG FOOTAGE:		807'
TOTAL FOOTAGE:		807'

MCI
COMMUNICATIONS SERVICES, INC.
OUTSIDE PLANT CONSTRUCTION

DATE: 1/11/2019

DRAWN BY: JJAMES

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCAI F

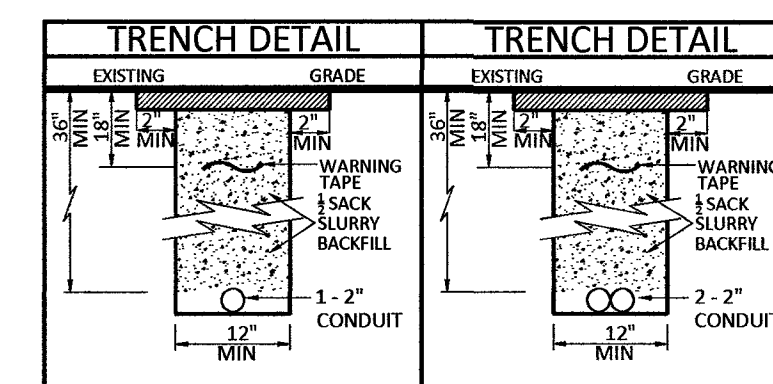
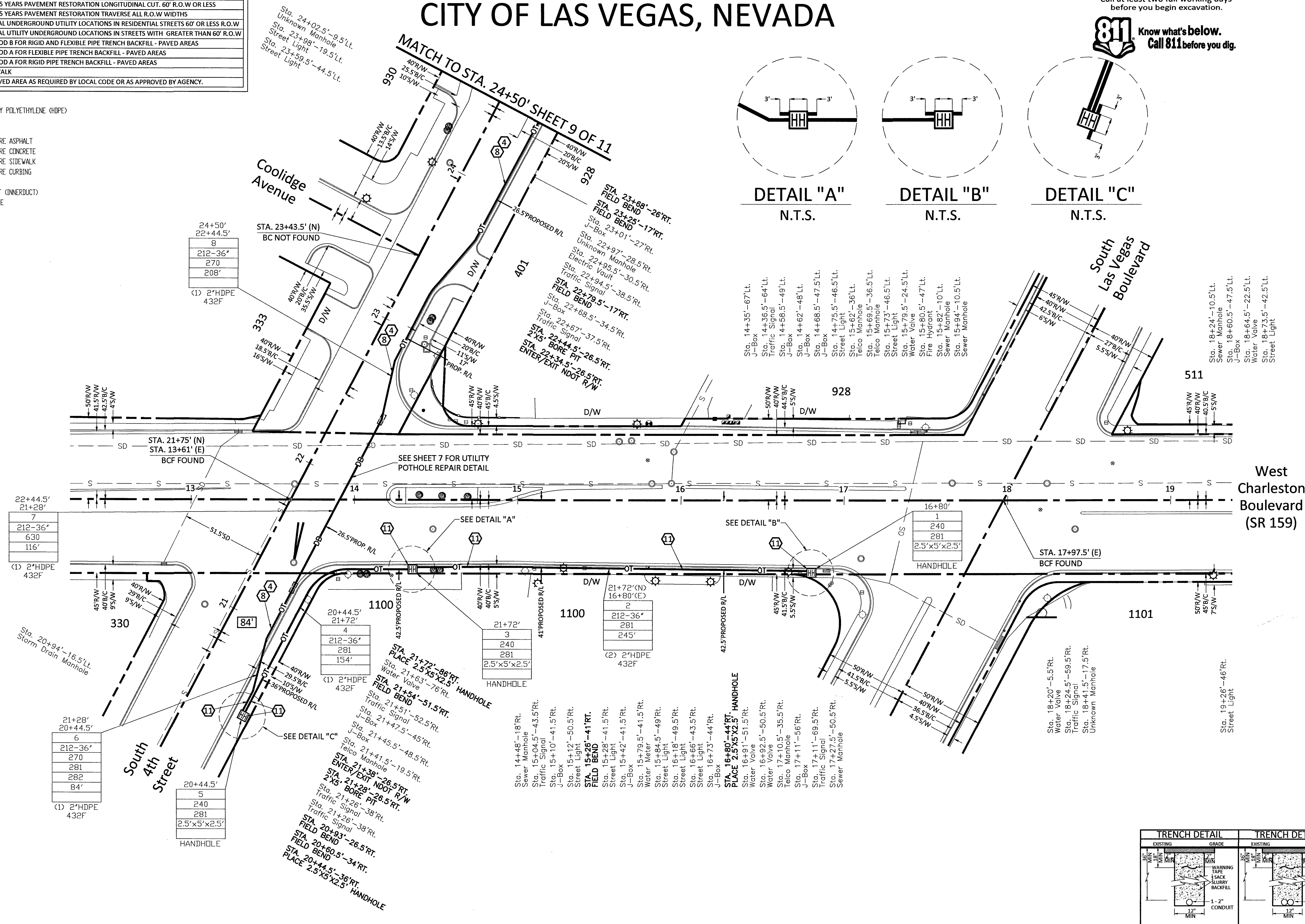
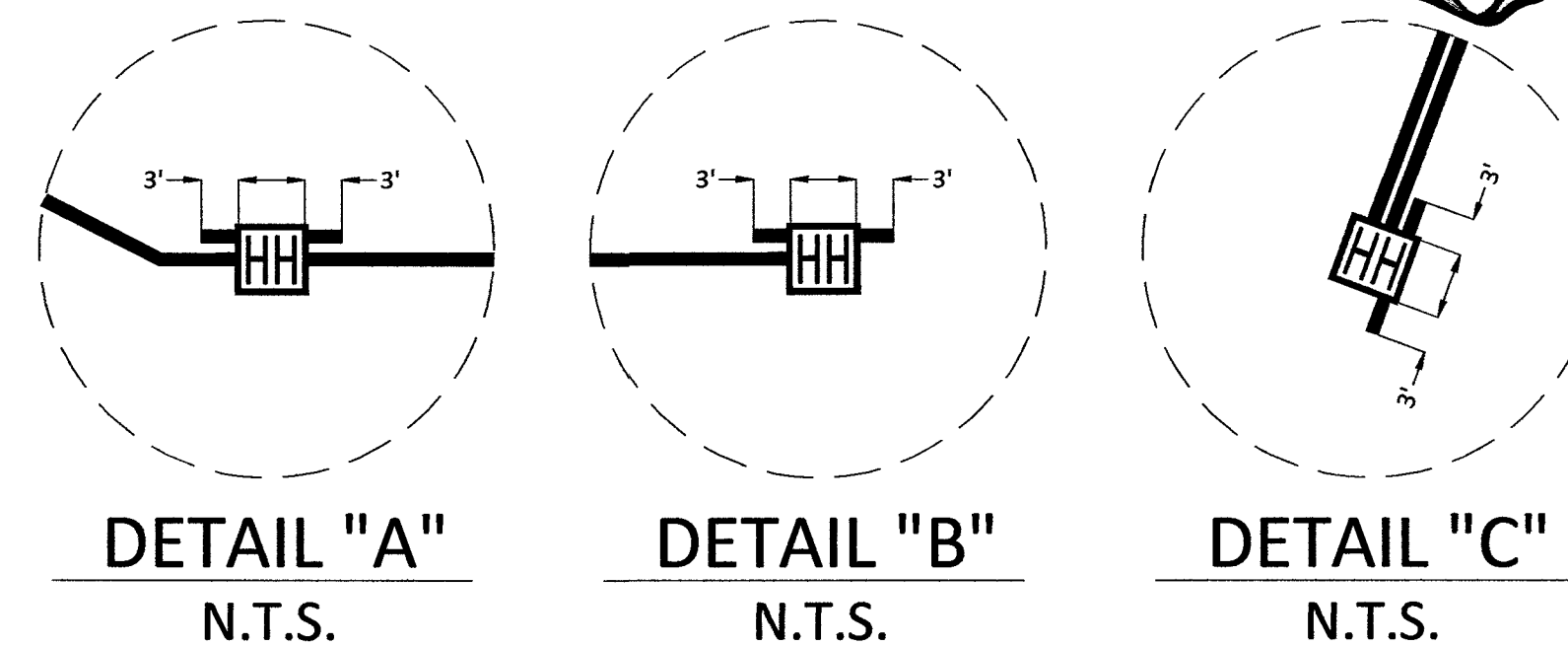
HORIZONTAL : $1''=30'$

VERTICAL: NA

MP	TO	MP
----	----	----

SHEET 8 OF 1

ETI F. LSV CHELSEA SC



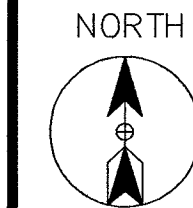
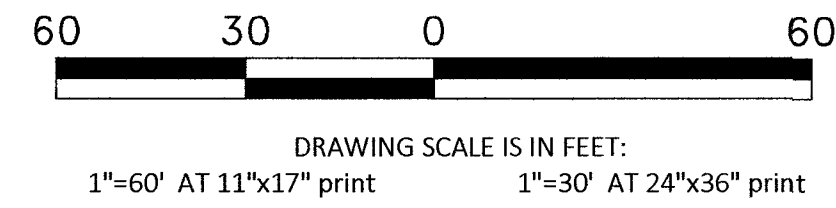
RTC NOTES:

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY
UNIFORM STANDARD DRAWINGS

- 1) 500.1 0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
- 2) 500.2 0 TO 5 YEARS PAVEMENT RESTORATION TRAVERSE CUT
- 3) 500.3 OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
- 4) 500.4 OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
- 5) 500.5 OVER 5 YEARS PAVEMENT RESTORATION TRAVERSE ALL R.O.W WIDTHS
- 6) 501 TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W
- 7) 501.1 TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W
- 8) 503 METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
- 9) 503.1 METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
- 10) 503.2 METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS
- 11) 234 SIDEWALK
- 12) BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.

- 210 PLACE CONDUIT
- 212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
- 240 PLACE HANDHOLE
- 250 PLACE MANHOLE
- 270 REMOVE AND RESTORE ASPHALT
- 280 REMOVE AND RESTORE CONCRETE
- 281 REMOVE AND RESTORE SIDEWALK
- 282 REMOVE AND RESTORE CURBING
- 410 PULL CABLE
- 411 PULL THROUGH DUCT (INNERDUCT)
- 520 PLACE AERIAL CABLE
- 630 DIRECTIONAL BORE

CONSTRUCTION DRAWING CITY OF LAS VEGAS, NEVADA



CELL SITE: LSV CHELSEA SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

SHEET TOTAL	
2" HDPE CONDUIT:	853'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	2
4' x 5' x 4' HANDHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	652'
TRENCH:	623'
TOTAL NEW UG FOOTAGE:	623'
TOTAL FOOTAGE:	1,275'

MCI
COMMUNICATIONS SERVICES, INC.
OUTSIDE PLANT CONSTRUCTION
TITLE: CELL SITE: LSV CHELSEA SC

DATE: 1/11/2019

DRAWN BY: JJAMES

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: 1"=30'

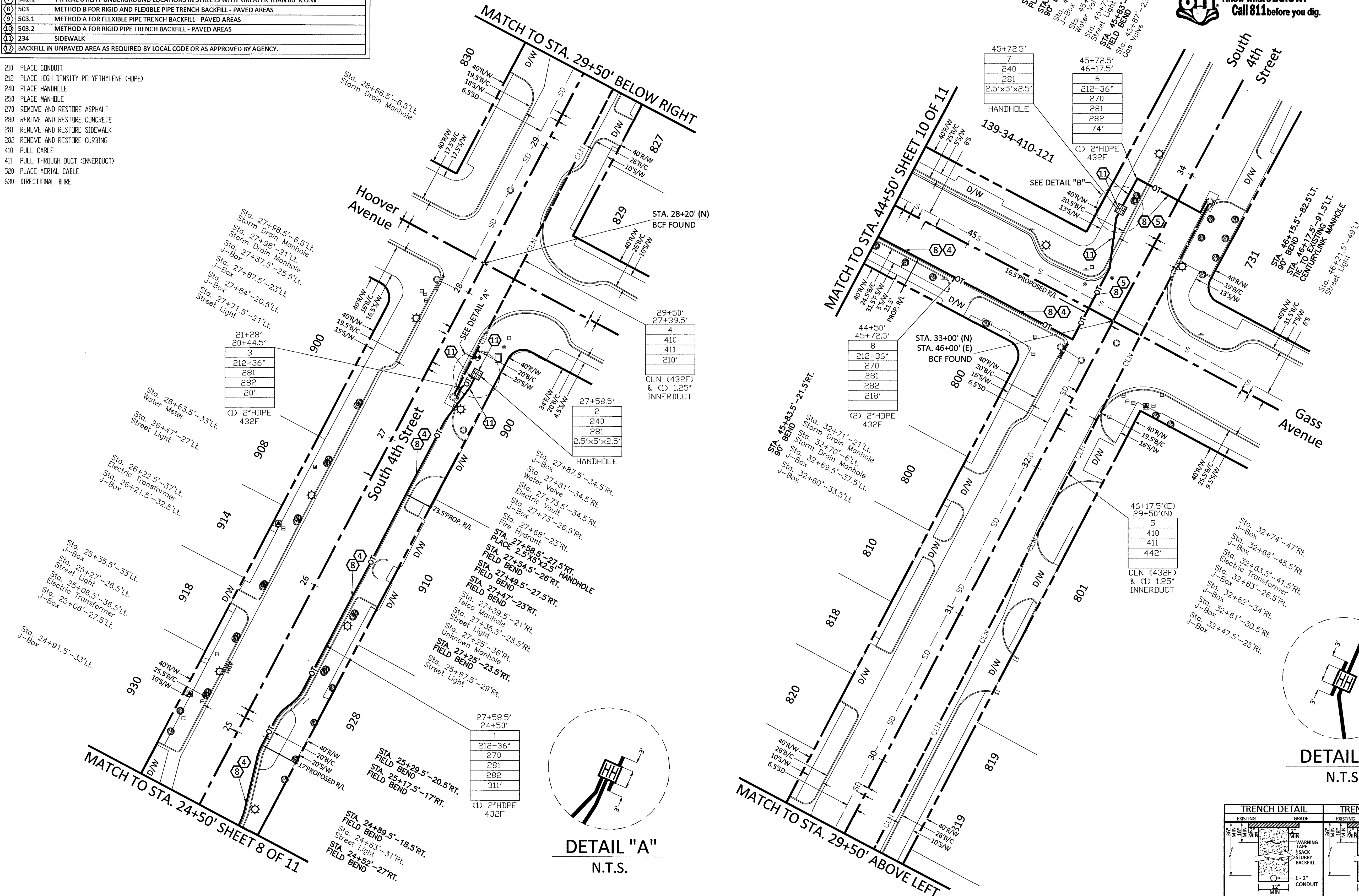
VERTICAL: NA

MP TO MP

SHEET 9 OF 11

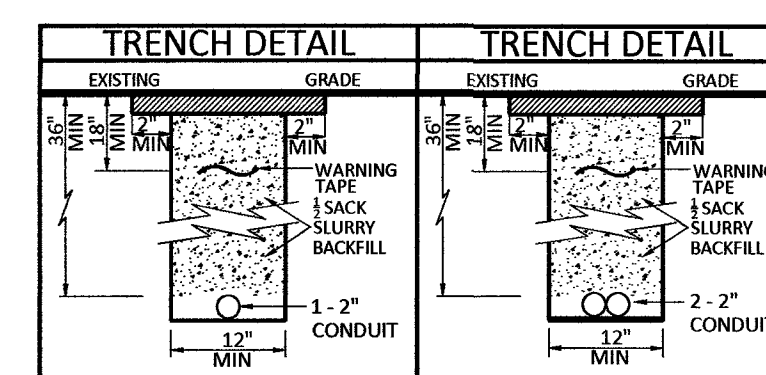
FILE: LSV CHELSEA SC

Call at least two full working days before you begin excavation.
811 Know what's below. Call 811 before you dig.

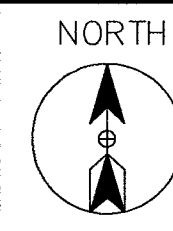
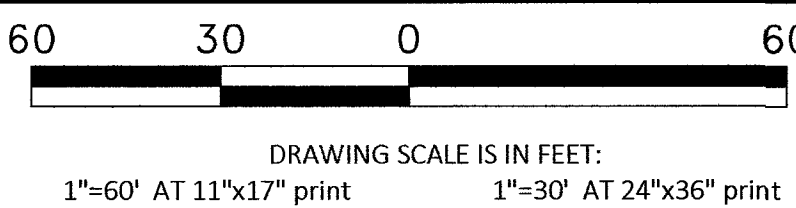


DETAIL "A"
N.T.S.

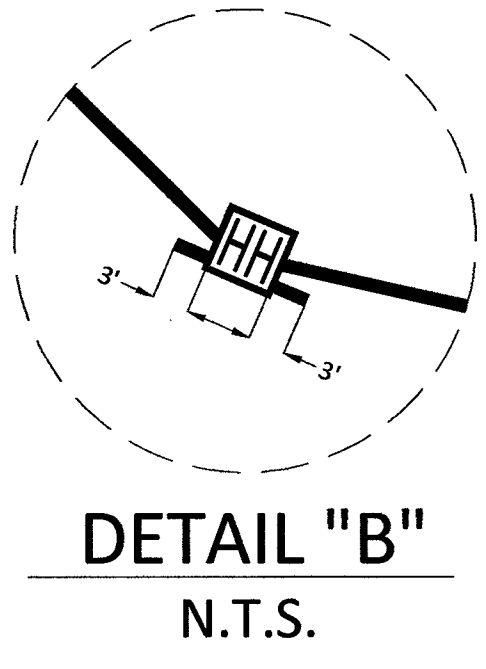
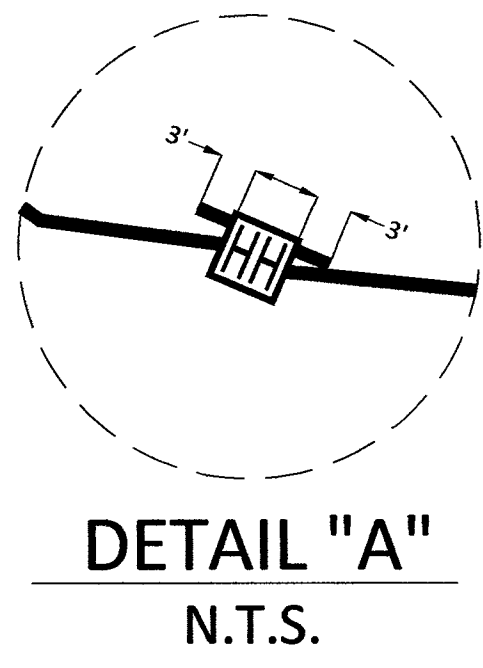
DETAIL "B"
N.T.S.



CONSTRUCTION DRAWING
CITY OF LAS VEGAS, NEVADA



Call at least two full working days
before you begin excavation.
811 Know what's below.
Call 811 before you dig.



CITY OF LAS VEGAS, NEVADA	
CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	1,103'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	1
2.5' x 5' x 2.5' HANDHOLE(S):	1
4' x 5' x 4' HANDHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	-
TRENCH:	561'
TOTAL NEW UG FOOTAGE:	561'
TOTAL FOOTAGE:	561'

MCI
COMMUNICATIONS SERVICES, INC.
OUTSIDE PLANT CONSTRUCTION
TITLE: CELL SITE: LSV CHELSEA SC

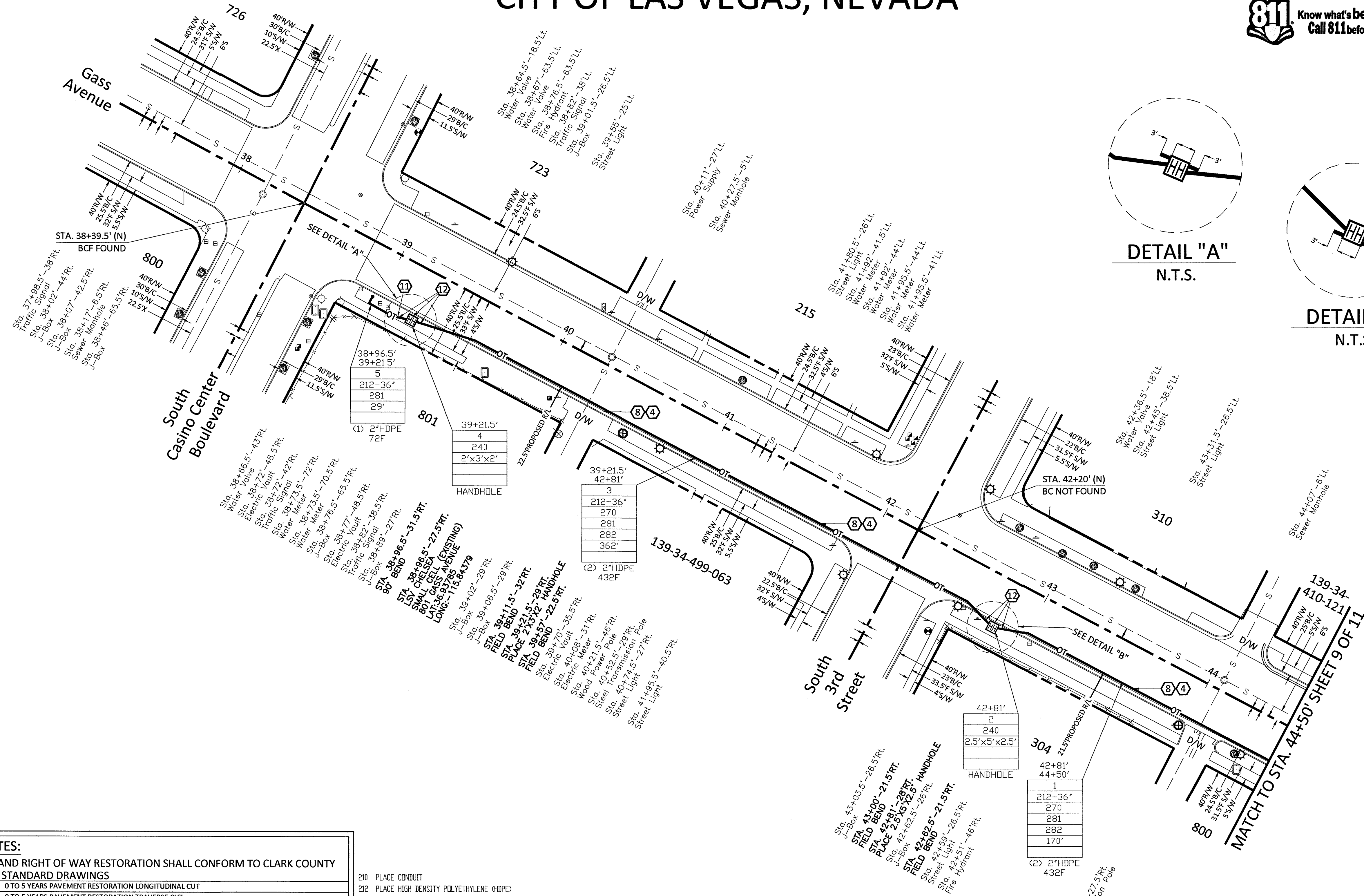
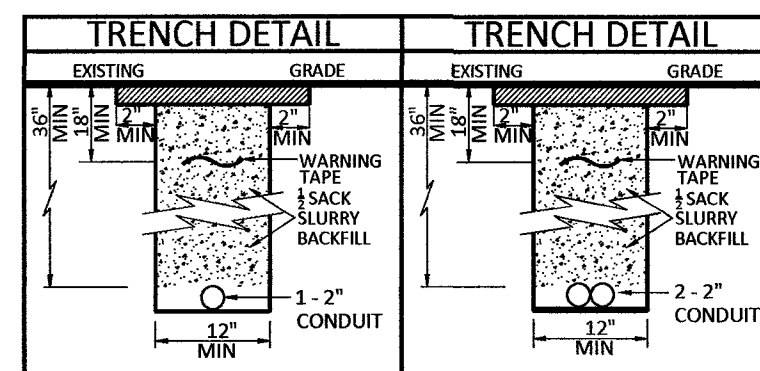
DATE: 1/11/2019		
DRAWN BY: JJAMES		
REVISIONS		
DATE	DESCRIPTION	INITIAL

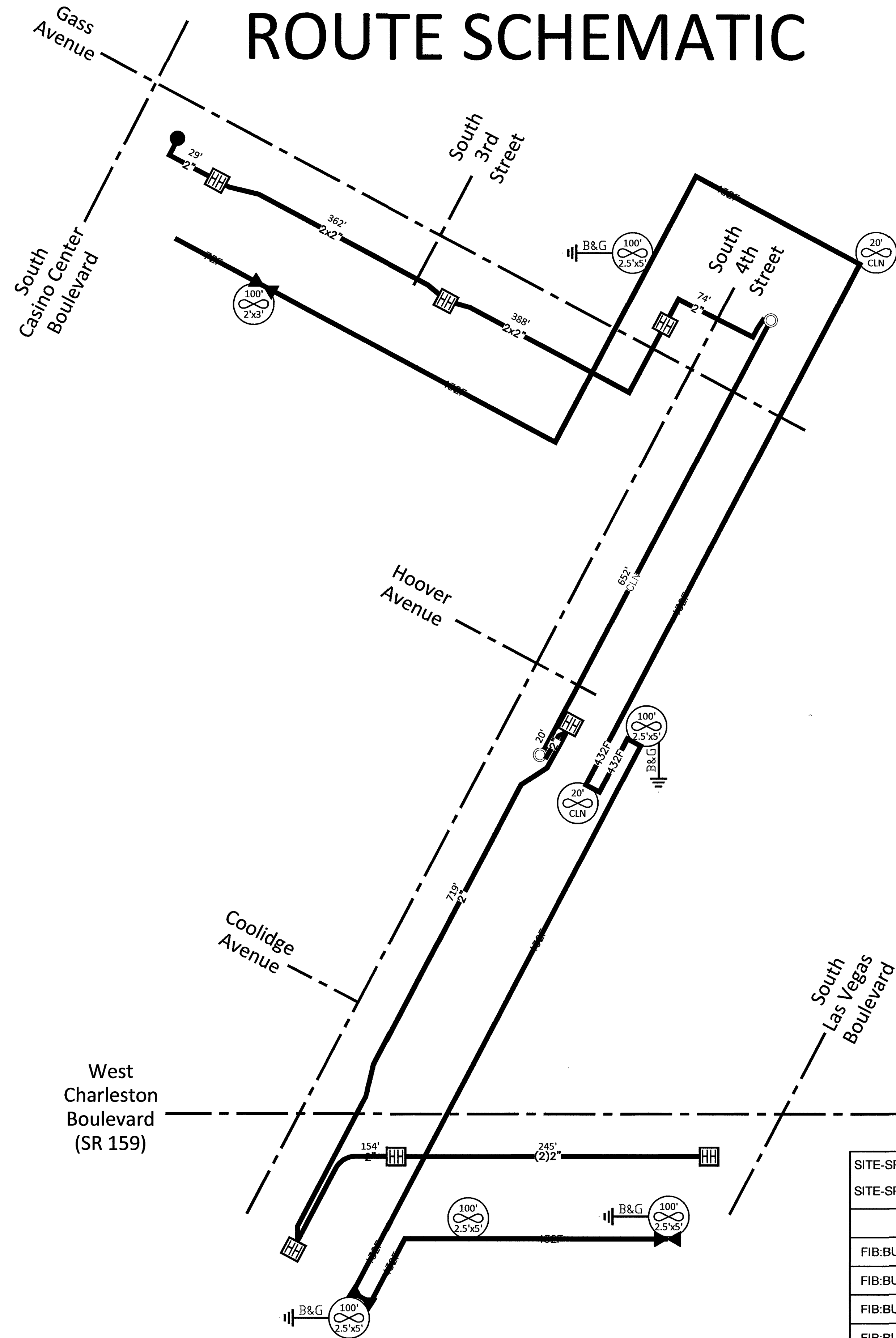
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SCALE	
HORIZONTAL:	1"=30'
VERTICAL:	NA
MP	TO MP
SHEET 10	OF 11
FILE: LSV CHELSEA SC	

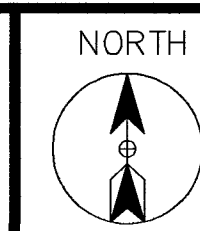
RTC NOTES:	
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS	
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(2) 500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRAVERSE CUT
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(4) 500.4	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
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(12) BACKFILL	IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.

- 210 PLACE CONDUIT
- 212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
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- 270 REMOVE AND RESTORE ASPHALT
- 280 REMOVE AND RESTORE CONCRETE
- 281 REMOVE AND RESTORE SIDEWALK
- 282 REMOVE AND RESTORE CURBING
- 410 PULL CABLE
- 411 PULL THROUGH DUCT (INNERDUCT)
- 520 PLACE AERIAL CABLE
- 630 DIRECTIONAL BORE





Call at least two full working days
before you begin excavation.
811 Know what's below.
Call 811 before you dig.



CITY OF LAS VEGAS, NEVADA	
CLARIFICATION NO.	QUANTITY
FIBER TOTALS	
FIBER SIZE/LENGTH:	432F/3,383'
FIBER SIZE/LENGTH:	72F/129'

COMMUNICATIONS SERVICES, INC.	PROJECT TITLE	
	OUTSIDE PLANT CONSTRUCTION	
	TITLE: CELL SITE: LSV CHELSEA SC	

DATE: 1/11/2019		
DRAWN BY: JJAMES		
REVISIONS		
DATE	DESCRIPTION	INITIAL

SITE-SPAN NAME: CELL SITE: LSV Chelsea SC									
SITE-SPAN ID: 1708APXX.41									
FQID	SEGMENT	FIBER COUNT	TRENCH	BORE	DB/OT	3RD PARTY	VZ OWNED	AERIAL	TOTAL
FIB:BUR::56000315	916040	432F	399'	'	'	'	'	'	399'
FIB:BUR::56017156	916105	432F	824'	'	'	'	'	'	824'
FIB:BUR::56143200	916106	72F	29'	'	'	'	'	'	29'
FIB:BUR::56017156	916107	432F	'	'	'	652'	'	'	652'
FIB:BUR::56017156	916133	432F	623'	116'	'	'	'	'	739'

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SCALE	
HORIZONTAL:	1"=30'
VERTICAL:	NA
MP	TO MP
SHEET 11	OF 11
FILE:	LSV CHELSEA SC