

VIATIONS

AT	MLCP	MULTI-LAYER COMPOSITE PIPE
ASPHALTIC CONCRETE	NPC	NEVADA POWER COMPANY
ASBESTOS CEMENT PIPE	NTS	NOT TO SCALE
AUTHORIZATION TO ENTER PROPERTY	OHP	OVERHEAD POWER LINE
APPROXIMATE	PC	POINT OF CURVE
BACK OF CURB	PCB	POURED CONCRETE BOX
BENCHMARK	P.I.P.	PROTECT IN PLACE
BOTTOM	PP	POWER POLE
BACK OF RAMP	PT	POINT OF TANGENCY
CURED IN PLACE PIPE	PRC	POINT OF REVERSE CURVE
CENTERLINE	PB	PULLBOX
CABLE T.V.	E, PL	PROPERTY LINE
CITY OF LAS VEGAS	PVC	POLYVINYL CHLORIDE
COMMERCIAL	R	RADIUS
CONCRETE	RCP	REINFORCED CONCRETE PIPE
CONDUCTOR	RT	RIGHT
CONTROLLED LOW STRENGTH MATERIAL	R/W, R.O.W.	RIGHT OF WAY
CURB AND GUTTER	S	SLOPE
DRIVEWAY	SCCP	STEEL CYLINDER CONCRETE PIPE
DUCTILE IRON	SD	STORM DRAIN
DRAWING	SF	SQUARE FOOT
END OF CURB RETURN (AT B/C)	SH	SHEET
EFFLUENT	SS	SANITARY SEWER
ELECTRIC	STA	STATION
EDGE OF PAVEMENT	STD.	STANDARD
ELEVATION	STL	STEEL
ELBOW	STRUCT.	STRUCTURE
EFFLUENT WATERLINE	SY	SQUARE YARD
EXISTING	S/W	SIDEWALK
EXISTING OVERHEAD UTILITY	T	TELEPHONE LINE
FOUND	TC	TOP OF CURB
FLOWLINE	TEL	TELEPHONE
FINISHED GRADE	TRANS.	TRANSITION
FIRE HYDRANT	T.R.C.	TOP OF RAMP CURB
FORCE MAIN	TS	TRAFFIC SIGNAL
FOOT/FEET	TYP.	TYPICAL
FACE OF CURB	UG	UNDERGROUND
GAS	U.S.D.	UNIFORM STANDARD DRAWING
GAS VALVE	W	WATER LINE
GUY WIRE	WC	WHEEL CHAIR
HIGH PRESSURE	WM	WATER METER
INTERSECTION	WPCF	WATER POLLUTION CONTROL FACILITY
INVERT	WV	WATER VALVE
LENGTH	W/	WITH
LINEAL FOOT, LINEAR FEET	△	INCLUDED DELTA ANGLE
LEFT		
MANHOLE		

OF BEARINGS

0°11" EAST-BEING THE CENTERLINE OF THIRD STREET BETWEEN CLARK AVENUE
AVENUE AS SHOWN ON FILE 185 OF SURVEY, PAGE 61, OFFICIAL RECORDS, CLARK
VADA.

HMARK

S VEGAS BENCHMARK ID BRIDGERS, 2008 ADJUSTMENT (UPDATED 05/24/2010)
VET & PLATE IN TOP OF CURB @ NE CORNER OF LAS VEGAS BLVD & BRIDGER
ELEVATION: 612.837m/2010.62 FT.

OF WORK

DISCHARGE PIPING FROM AN EXISTING SUMP PUMP TO AN EXISTING SANITARY SEWER
ABANDON EXISTING DISCHARGE LINE TO EXISTING STORM DRAIN. REPLACE CONTROL
SUMP PUMPS.

LEGEND

— — — — —	CENTERLINE
— — — — —	RIGHT OF WAY LINE
— —	PROPERTY LINE
— — — — —	AUTHORIZATION TO ENTER PROPERTY (AEP)
— — — — —	EDGE OF ASPHALT
— — — — —	EXISTING CMU WALL
— — — — —	EXISTING CMU RETAINING WALL
— — — — —	EXISTING CHAINLINK FENCE
— — — — —	EXISTING SANITARY SEWER LINE
— — — — —	EXISTING STORM DRAIN LINE
— — — — —	EXISTING WATER LINE
— — — — —	EXISTING EFFLUENT WATER LINE
— — — — —	EXISTING GAS LINE
— — — — —	EXISTING CABLE TELEVISION
— — — — —	EXISTING UNDERGROUND TELEPHONE
— — — — —	EXISTING UNDERGROUND POWER
— — — — —	EXISTING OVERHEAD POWER
⊕	BENCHMARK
⊕	EXISTING CABLE T.V. PULL BOX
⊕	EXISTING ELECTRIC VAULT/PULL BOX
⊕	EXISTING ELECTRIC MANHOLE
⊕	EXISTING FIRE HYDRANT
⊕	FOUND MONUMENT AS NOTED
⊕	EXISTING GAS VALVE
⊕	EXISTING POWER OR TELEPHONE POLE
⊕	EXISTING SANITARY SEWER MANHOLE
⊕	SET MONUMENT AS NOTED
⊕	EXISTING SIGN
⊕	EXISTING STORM DRAIN MANHOLE
⊕	EXISTING STREET LIGHT
⊕	EXISTING STREET LIGHT PULL BOX
⊕	EXISTING TELEPHONE MANHOLE
⊕	EXISTING TELEPHONE PULL BOX
⊕	EXISTING WATER METER
⊕	WATER VALVE
⊕	EXISTING LIGHT POLE
⊕	EXISTING GUY WIRE
⊕	EXISTING TREE
⊕	EXISTING TREE OR LANDSCAPING LINE
⊕	DEMOLITION

LVVWD STANDARD NOTES

- LVVWD PROJECT # 122995
- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.
 - ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 - ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
 - TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600.
 - THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

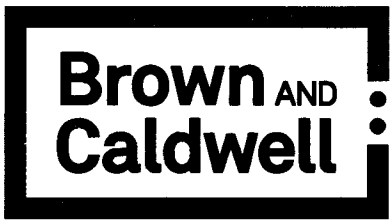
ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
MANAGER
PROJECT NO. 122995 DATE: 1/14/15
(NO NEW FACILITIES)

CODE ANALYSIS

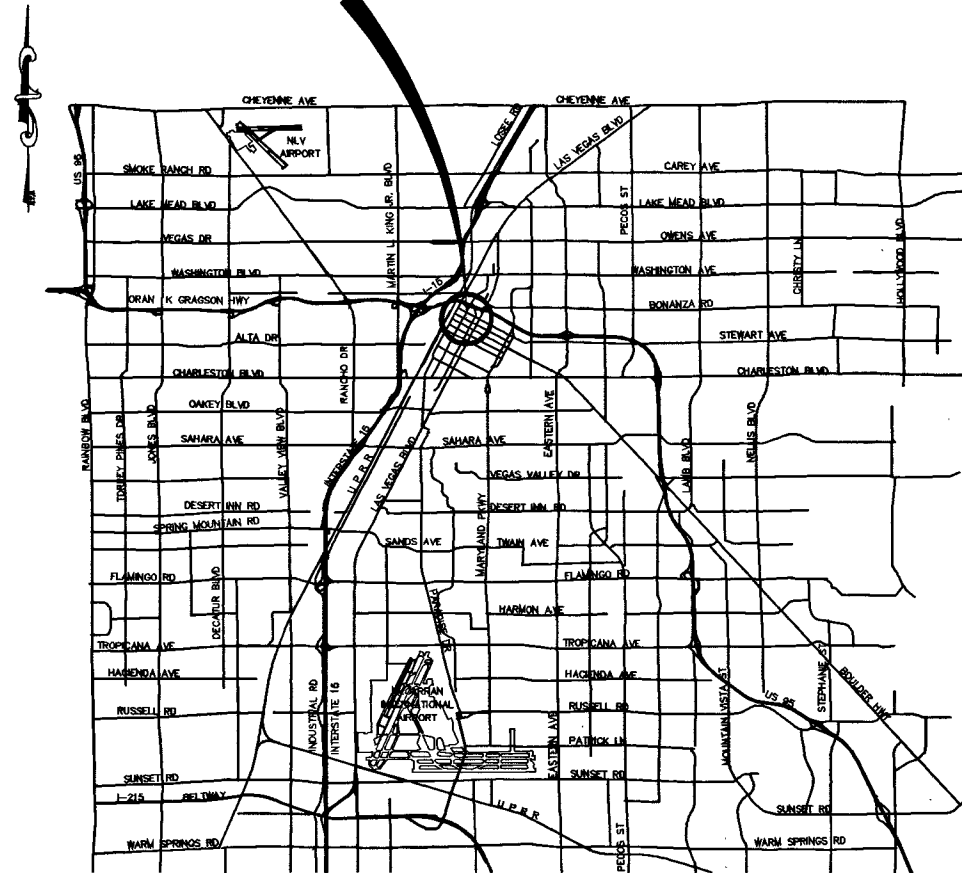
CODE YEAR: 1997 UBC
• IMPROVEMENTS 2012 UPC *
2011 NEC **
OCCUPYING GROUP: GROUP S-3
TYPE OF CONSTRUCTION: TYPE I FIRE RESISTIVE
FIRE SPRINKLERS: YES FULL SPRINKLERS
BUILDING HEIGHT/# STORIES: 2 STORIES ABOVE GROUND
BUILDING SQ. AREA-BASEMENT: 63,610 SF, UPPER LEVEL 63,610
SF TOTAL = 190,830 SF

- * THIS IS AN ENGINEERED SYSTEM.
- ** ELECTRICAL EQUIPMENT IS BEING REPLACE IN-KIND.



8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082

PROJECT VICINITY



VICINITY MAP

NOT TO SCALE

SHEET INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
GENERAL		
1	G-01	COVER SHEET
2	G-02	LEGEND, VICINITY MAP AND SHEET INDEX
3	G-03	CITY OF LAS VEGAS GENERAL NOTES
4	G-04	SITE PLAN
DEMOLITION		
5	D-01	DEMOLITION PLAN
CIVIL		
6	C-01	PIPING PLAN AND PROFILE
7	C-02	MISCELLANEOUS DETAILS
ELECTRICAL		
8	E-01	SYMBOLS, ABBREVIATIONS AND NOTES
9	E-02	STANDARD CONTROL AND ONE-LINE DIAGRAM LEGENDS AND SYMBOLS
10	E-03	DETAILS
11	E-04	PARKING GARAGE SUMP PUMPS
12	E-11	CONTROL PANEL SCHEMATICS 1 OF 3
13	E-12	CONTROL PANEL SCHEMATICS 2 OF 3
14	E-13	CONTROL PANEL SCHEMATIC 3 OF 3



REVISIONS

DEPARTMENT OF PUBLIC WORKS

TITLE: CITY CENTER PLACE GROUNDWATER



Sheet

CITY OF LAS VEGAS GENERAL NOTES

CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA', LATEST ISSUE, THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA', LATEST REVISED EDITION; THE 'SUMMERLIN DESIGN STANDARDS' FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE DESIGN STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE 'UNIFORM BUILDING CODE' AND 'LOCAL CITY CODES AND ORDINANCES' APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS DEVIATIONS FROM STANDARDS.

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 UTILITIES. REFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CARE AND CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL, EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH 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 THE UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE REVISION WRITTEN APPROVAL OF THE CITY ENGINEER.

PORTLAND 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.

TESTS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL FURNISH ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

JOINTS IN CONCRETE JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

THE CURB SHALL BE ONE-HALF INCH (1/2") ABOVE TOP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND GROSS GUTTERS.

THE CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

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THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR ACCESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON THESE PLANS.

THE GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY) , (DATE) , APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

THE 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 RECORD CONDITION REQUIRES RELOCATIONS.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER STANDARD DRAWING 18, APPENDIX D.

THE UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF THE PUBLIC RIGHT-OF-WAY, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS OBTAINED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

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CITY OF LAS VEGAS STREETLIGHT NOTES

- ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA', LATEST ISSUE, AND THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA', LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL STREET LIGHTING CONDUITS SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN 'EMPTY' CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR 'SAFE OFF' PRIOR TO FINAL INSPECTION.
- ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
- AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
- SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
- IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
- WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
- THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
- THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEF0) AT (702) 229-6331.

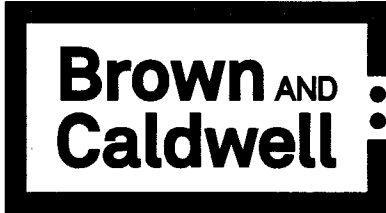
CITY OF LAS VEGAS TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIB CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
- WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER. REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO. AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CITY OF LAS VEGAS GENERAL NOTES

LAS VEGAS FIRE & RESCUE GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT'S ORDINANCE # 5667, 'HYDRANT SPECIFICATIONS', AND 'HYDRANT INSTALLATION SPECIFICATION'.
- AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
A. KENNEDY - GUARDIAN MODELS K81A AND K81D
B. MUELLER - SUPER CENTURION 250 MODEL A-423
C. CLOW - MEDALLION MODEL F-2546LVD
D. TROY VALVE - PATRIOT MODEL PT8100N NEVADA HYDRANT
E. U.S. PIPE - METROFLOW/M-03
- ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE # 5667.
- ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CALL THE CITY OF LAS VEGAS INSPECTION HOT-LINE AT 229-2071 TO REQUEST AN INSPECTION BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- PAINTING OF THE CURBS AND FIRE HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE # 5667, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
- PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
- PRIOR TO THE FINAL OCCUPANCY, A FLOW TEST MUST BE WITNESSED BY THE CITY OF LAS VEGAS FIRE DEPARTMENT TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
- ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED, AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE.
- FIRE HYDRANTS SPACING SHALL BE:
RESIDENTIAL - 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
COMMERCIAL - 300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
- WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
- TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
- THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS.
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
- FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT FOR THE APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FEET FLOW LINE TO THE FLOW LINE (THIS WIDTH MAY BE REDUCED TO 24 FEET, IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR MAIN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET, PRIVATE DRIVE AISLES, DRIVEWAYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FEET WIDE FLOW LINE TO THE FLOW LINE WHEN SERVING NO MORE THAN 6 RESIDENCES, AND WHEN ON STREET PARKING IS DISALLOWED.
- ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FEET (FLOW LINE TO THE FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE; 32 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON ONE SIDE ONLY; AND 40 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. THESE WIDTHS MAY BE REDUCED BY 4 FEET IF ALL BUILDINGS ARE SPRINKLERED.
- A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET OF A SINGLE EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING.
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FEET IF THE BUILDING IS SPRINKLERED.
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FEET, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS.
- ALL DEAD-END FIRE APPARATUS ACCESS ROADS AND OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET.
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF A CURB IS NOT PROVIDED SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.



8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082

CITY OF LAS VEGAS SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DESIGN AND CONSTRUCTION STANDARD FOR WASTEWATER COLLECTION SYSTEMS AND THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY PLANNING ENGINEER.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES IN PAVED STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY PLANNING ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
- INSTALLATION OF CURVED SEWERS REQUIRED THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

CITY OF LAS VEGAS GRADING NOTES

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
- THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- THE CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED: HORIZONTAL VERTICAL COMPACTION
A. PAVEMENT AREA SUBGRADE 0.1+ +0.0 TO -0.1'SEE SOILS REPORT
B. ENGINEERED FILL 0.5+ +0.1 TO -0.1'SEE SOILS REPORT COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

DEVIATIONS FROM STANDARDS

IF THERE ARE NO DEVIATIONS FROM APPLICABLE CLARK COUNTY STANDARDS, UNLESS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

DEPARTMENT OF PUBLIC WORKS

CITY CENTER PLACE GROUNDWATER

TITLE:



Sheet



0 80 160
SCALE IN FEET

APPROVED FOR CONSTRUCTION

DISNEY FR DM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
MANAGER
PROJECT NO. 122995 DATE: 1/14/15
(NO NEW FACILITIES)

LEWIS AVENUE (80' R/W)

4TH STREET (80' R/W)

APN 139-34-301-004
CITY OF LAS VEGAS
REDEVELOPMENT

APN 139-34-301-003
CSFB 2004-C5
OFFICE 400 LLC

CITY CENTER PLACE
PARKING GARAGE
(BOTTOM LEVEL)

SEE DETAIL

1/2" PE GAS 2" PE GAS

LOT 14 LOT 15 LOT 16

APN 139-34-311-087
CLARK COUNTY

APN 139-34-311-120
MARKIL, LLC

2" PVC GAS

APN 139-34-311-119
MARKIL, LLC

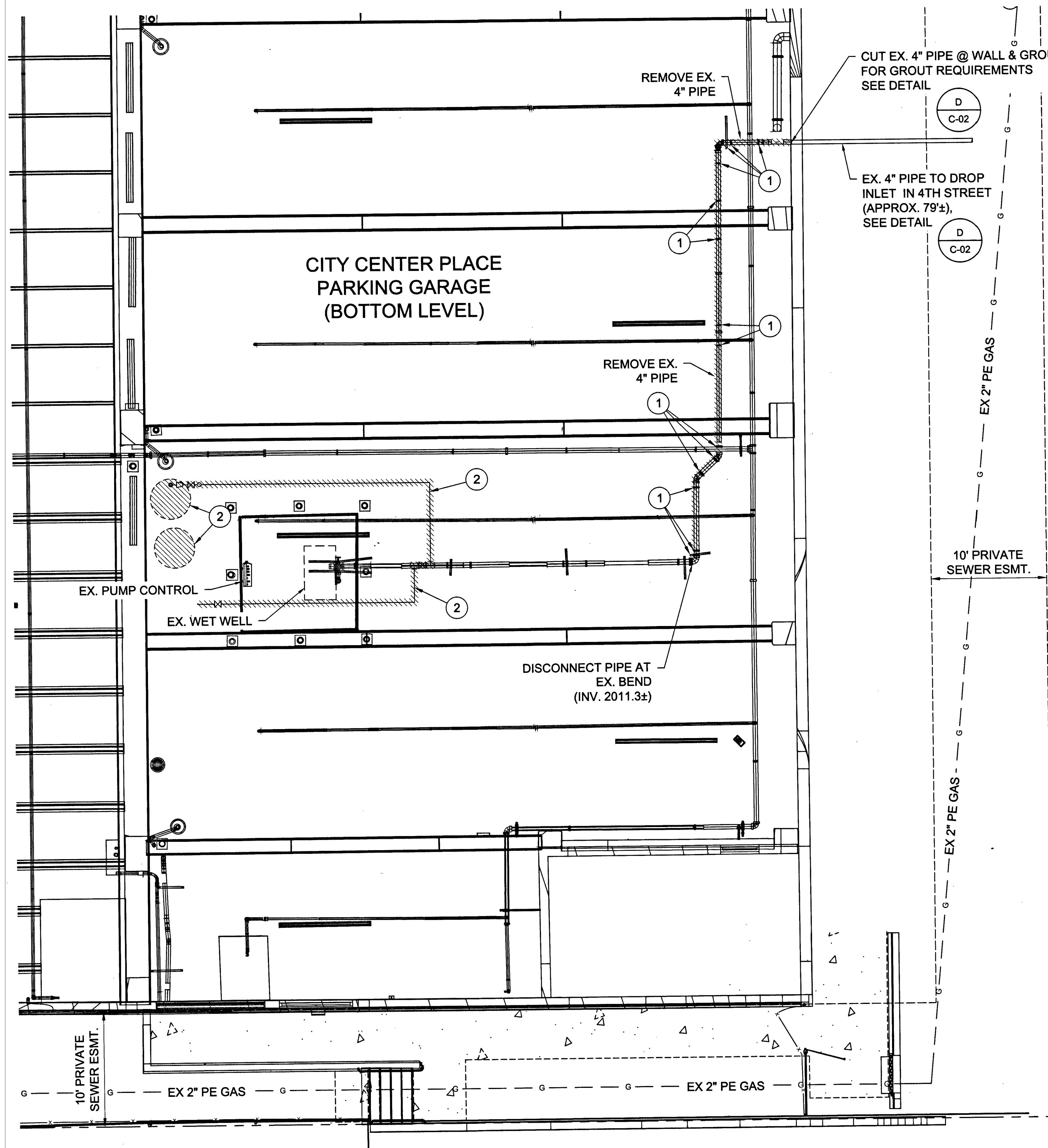
20' CLV-LVVWD
SEWER ESMT.

CLARK STREET (80' R/W)

DEMOLITION
PLAN
SCALE: 1" = 40'

KEY NOTES:

- ① REMOVE EXISTING PIPE HANGER
- ② REMOVE EXISTING CARBON FILTER SYSTEM INCLUDING PIPING AND APPURTENANCES AND DELIVER TO CITY



DEMOLITION

DETAIL

SCALE: 1" = 6'

Avoid cutting underground utility lines. It's costly.
Call 811
1-800-227-3800
our code office number 1-702-466-7644

Avoid cutting underground utility lines. It's costly.
Call before you Overhead
1-702-593-6111
Nevada Power, Environment and Safety Services Department

LEWIS AVENUE (80' R/W)

Brown AND Caldwell

8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082

APN 139-34-301-004
CITY OF LAS VEGAS
REDEVELOPMENT

APN 139-34-301-003
CSFB 2004-C5
OFFICE 400 LLC

CITY CENTER PLACE
PARKING GARAGE
(BOTTOM LEVEL)

4TH STREET (80' R/W)

SEE DETAIL

APN 139-34-311-087
CLARK COUNTY

APN 139-34-311-120
MARKIL, LLC

APN 139-34-311-119
MARKIL, LLC

CLARK STREET (80' R/W)

PLAN
SCALE: 1" = 40'

PROFILE
SCALE H: 1" = 20'
V: 1" = 10'

CITY CENTER PLACE
PARKING GARAGE
(BOTTOM LEVEL)

INSTALL 2" AIR RELEASE
VALVE AT TOP OF RISER

EX DUPLEX SUMP
PUMPING SYSTEM

EX. PUMP CONTROL

22.50° VIC BEND
STA. 50+02.38

REMOVE EX
90° BEND & INSTALL
22.50° VIC BEND
STA. 50+00.00

90.00° VIC BEND
STA. 50+04.82

90.00° VIC BEND
STA. 50+48.95

90.00° VIC BEND
STA. 50+27.04

22.50° VIC BEND
STA. 50+91.80

22.50° VIC BEND
STA. 50+90.34

90.00° VIC BEND
STA. 50+61.88

90.00° VIC BEND
STA. 51+23.98

22.50° VIC BEND
STA. 51+04.22

22.50° VIC BEND
STA. 51+01.92

4" GROOVED END
TRANSITION COUPLING
STA. 51+37.43

22.50° VIC BEND
STA. 51+38.53

4" DI PIPE

EX. CLEAN OUT

EX MH
STA. 51+43.10
N 10031.5872
E 10229.8934

EX 1/2" PE GAS

10" PRIVATE
SEWER ESMT.

EX 2" PE GAS

EX 8" PVC

EX 2" PVC GAS

EX 1" PE GAS

EX 8" PVC

EX 1" PE GAS

EX 8" PVC

EX 1" PE GAS

EX 8" PVC

EX 1" PE GAS

EX 8" PVC

EX 1" PE GAS

EX 8" PVC

EX 1" PE GAS

EX 8" PVC

PIPE SCHEDULE

4-INCH DISCHARGE PIPE EXPOSED
STEEL ASTM A53 GRADE B BLACK
WITH CEMENT MORTAR LINING

BURIED
DUCTILE IRON, AWWA C151 WITH
CEMENT MORTAR LINING

DETAIL

SCALE: 1" = 6'

APPROVED FOR CONSTRUCTION

DISHAR FOR
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
MANAGER
PROJECT NO. 122995 DATE: 1/14/15
(NO NEW FACILITIES)

Call
811
1-800-227-2600
1-702-455-7644

Call
before you
Overhead
1-702-593-6111
Nevada Power Environment and
Safety Services Department

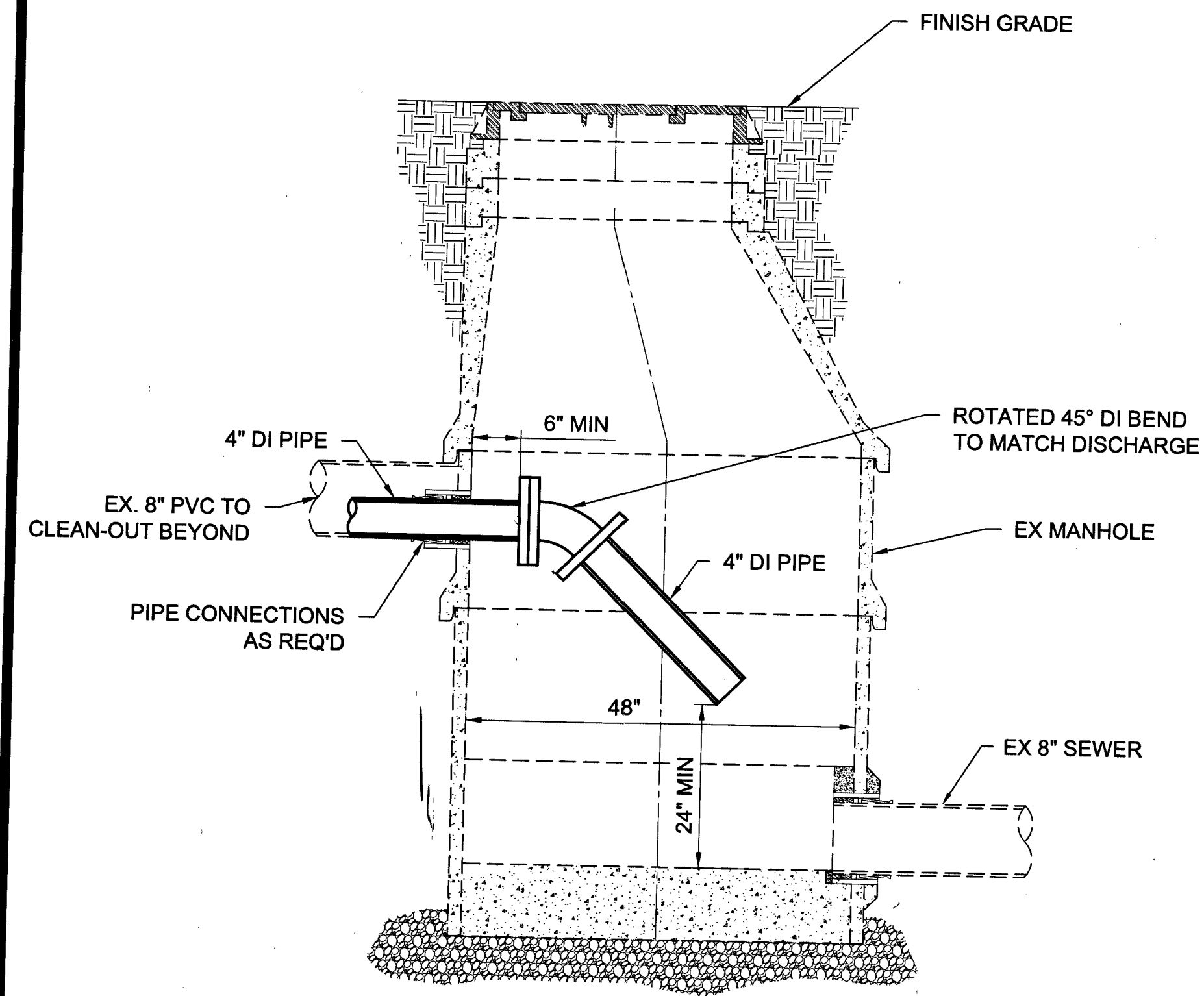
DEPARTMENT OF PUBLIC WORKS

CITY CENTER PLACE GROUNDWATER

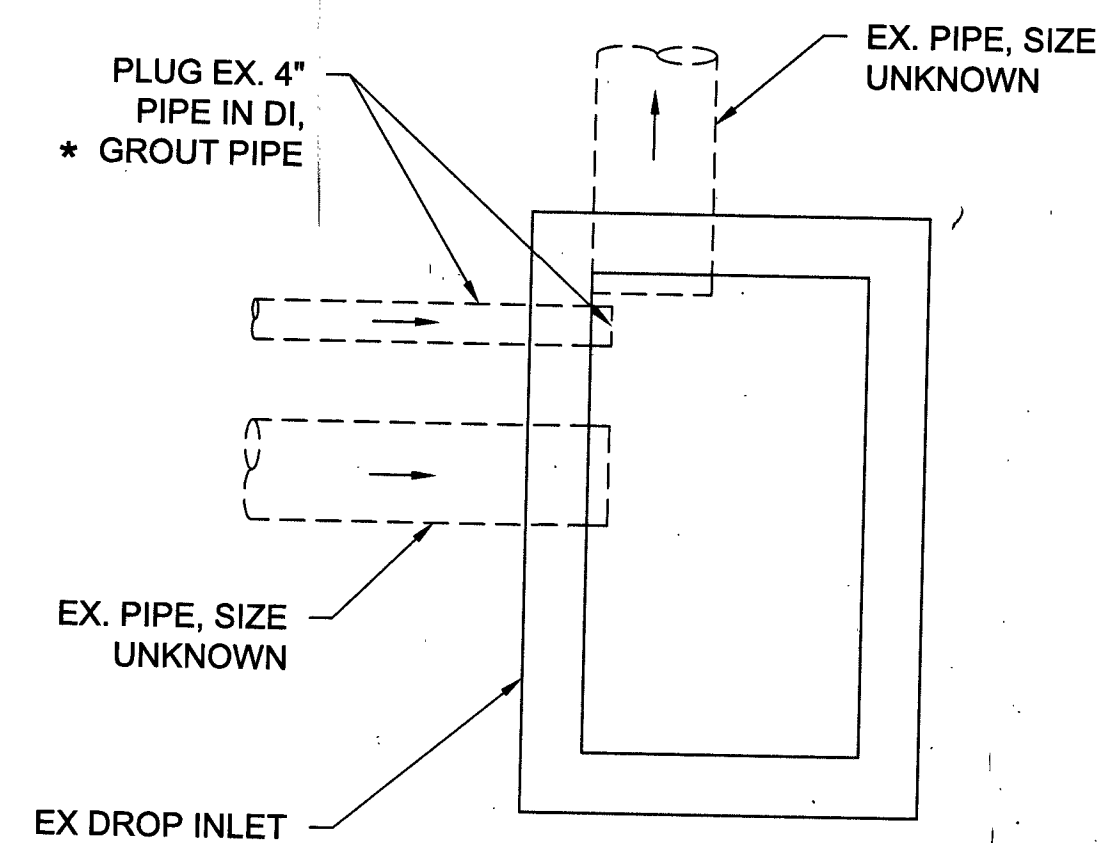
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11/18/14 L:\LAS VEGAS\143895-SMALL DIAMETER ASSESSMENT - YEAR 4\11-CADD\2-SHEETS\CIVIL\143895-C02.DWG

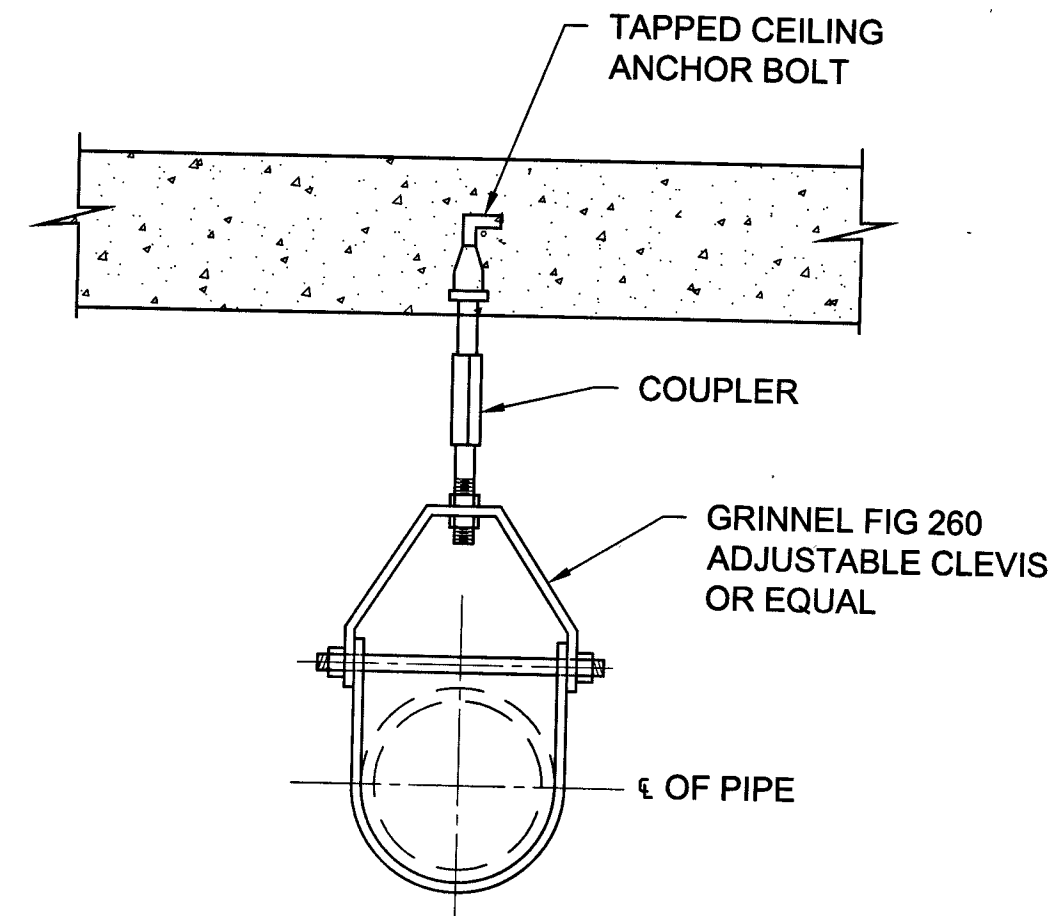


EXISTING 48" MANHOLE CONNECTION
DETAIL A
N.T.S.

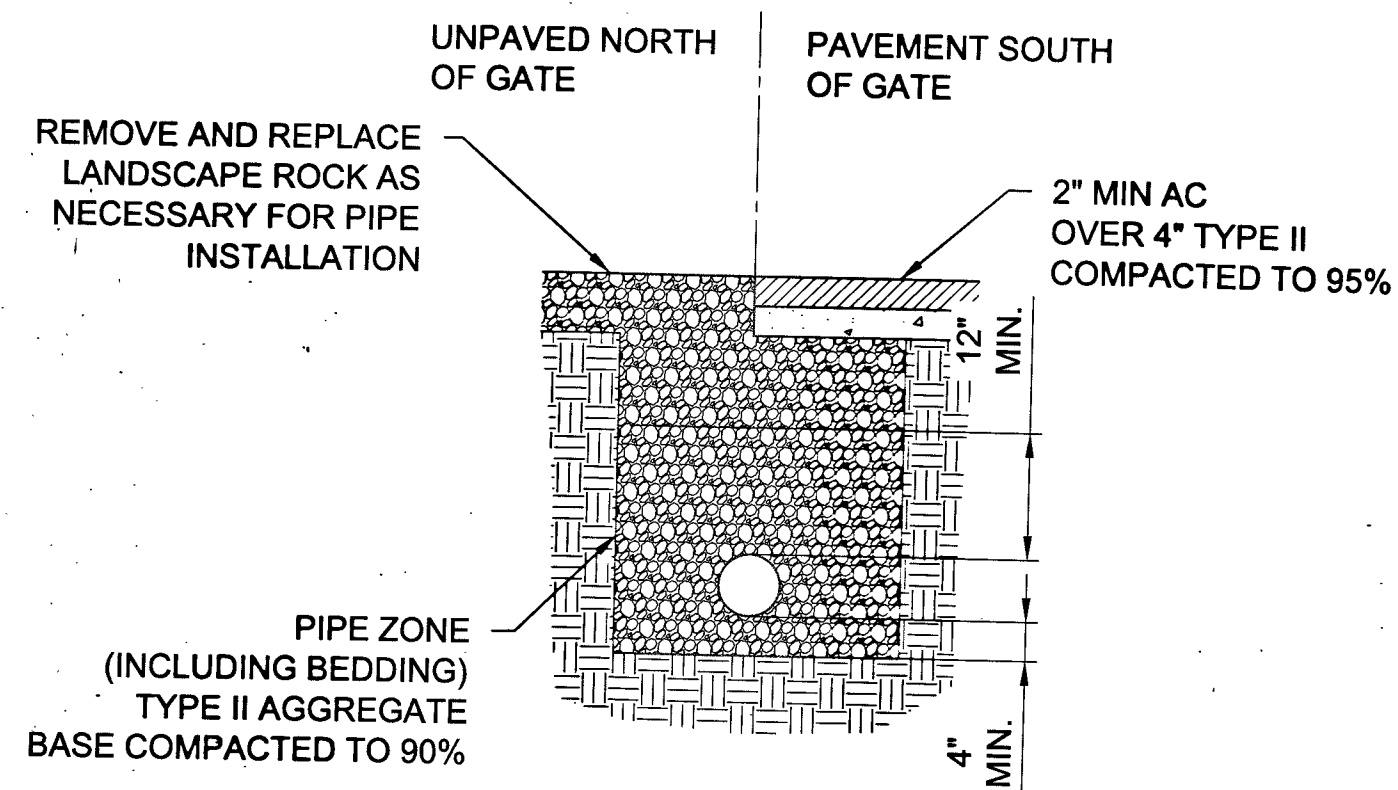


DROP INLET DISCHARGE POINT
DETAIL D
N.T.S.

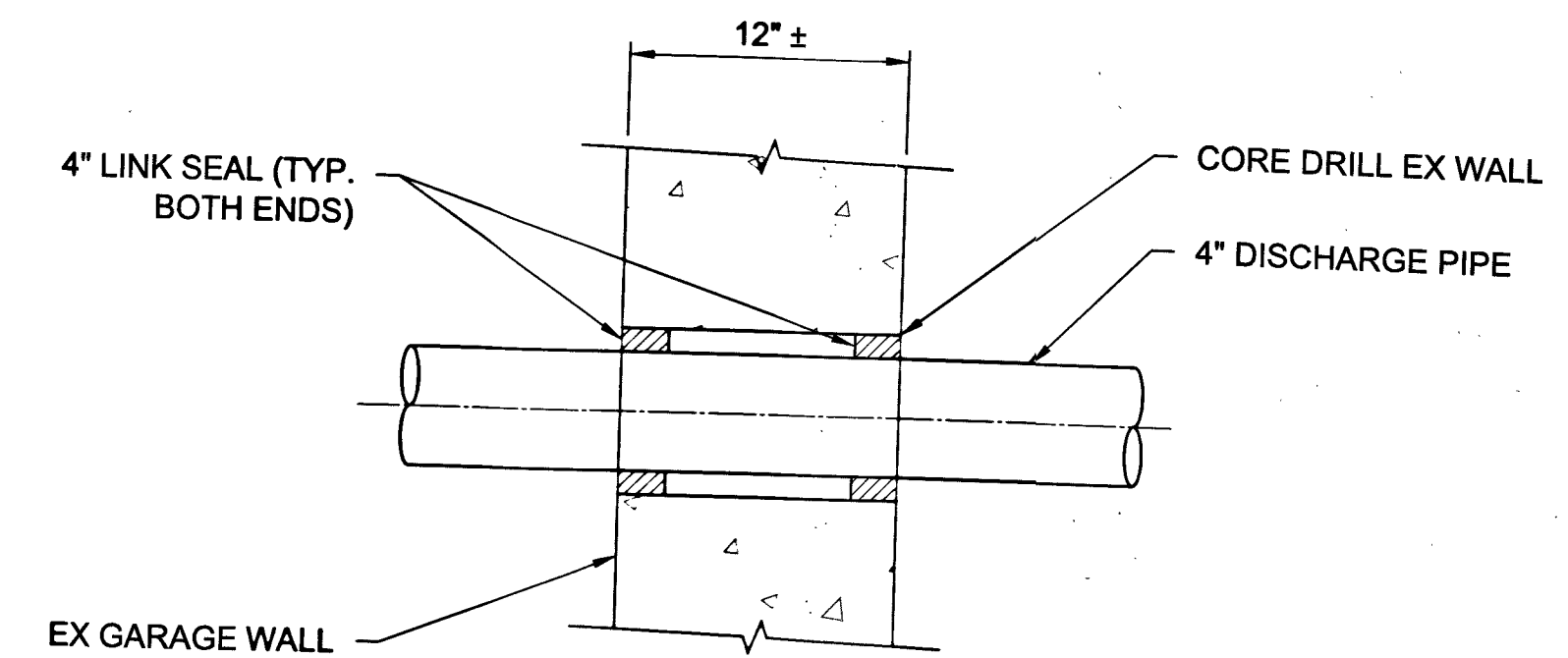
* GROUT WITH MASTERFLOW 713 BY MASTER BUILDERS, FIVE STAR US GROUT CORP. OR AGENCY APPROVED NON-METALLIC, NON-SHRINK TYPE V GROUT WITH ADDITIVES FOR PROTECTION AGAINST HYDROGEN SULFIDE (H₂S) ATTACK.



CLEVIS PIPE HANGER
DETAIL B
N.T.S.



TRENCH SECTION
DETAIL E
N.T.S.



GARAGE WALL PENETRATION
DETAIL C
N.T.S.

Brown AND Caldwell

8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082

REVISIONS		NO.	DATE	BY	APP'D

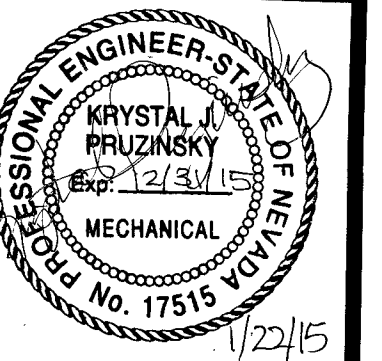
DESIGNED BY: JPO
DRAWN BY: DD
CHECKED BY: KP

DATE: 5/14/2014



TITLE: CITY CENTER PLACE GROUNDWATER DISCHARGE IMPROVEMENTS
SHEET:

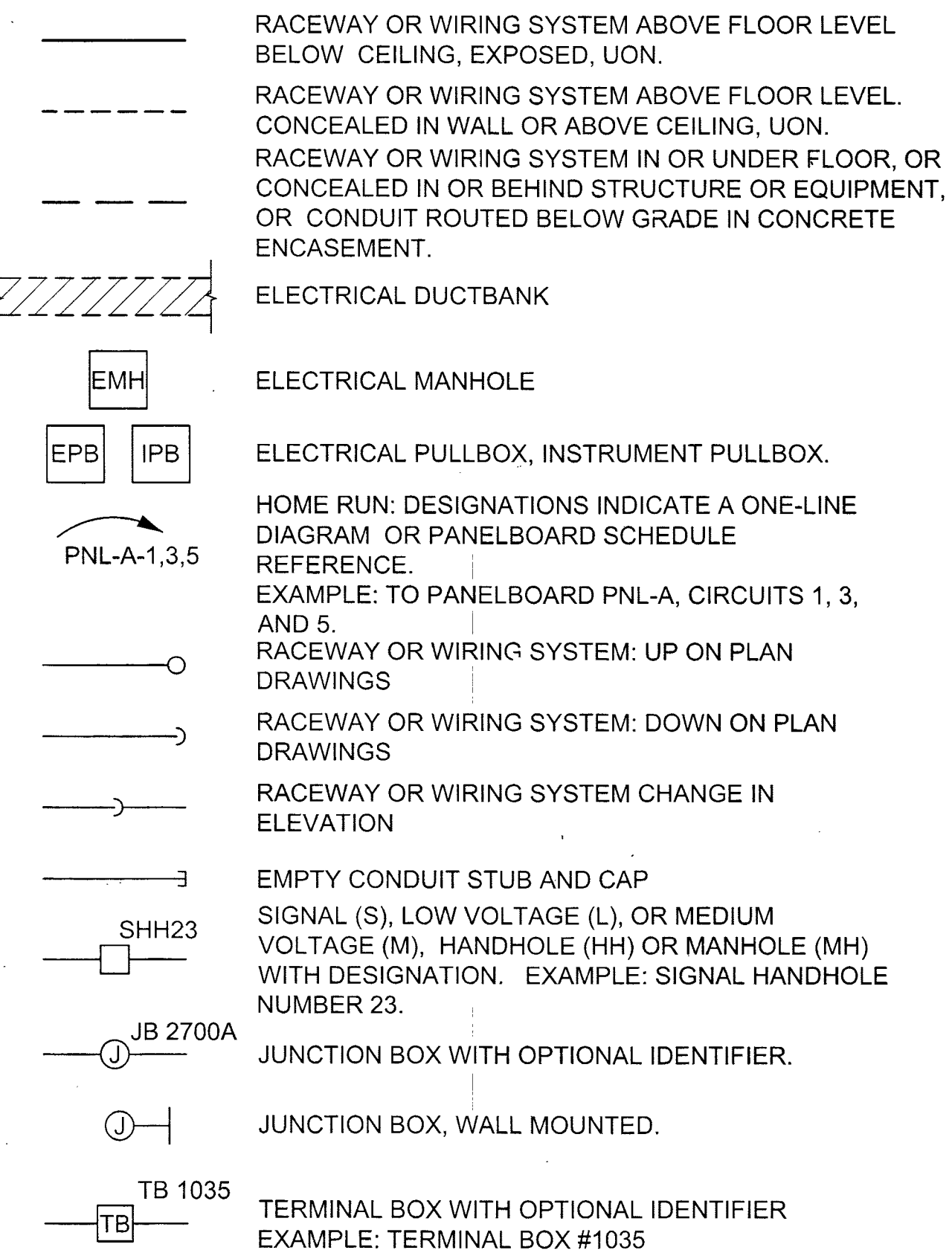
MISCELLANEOUS DETAILS



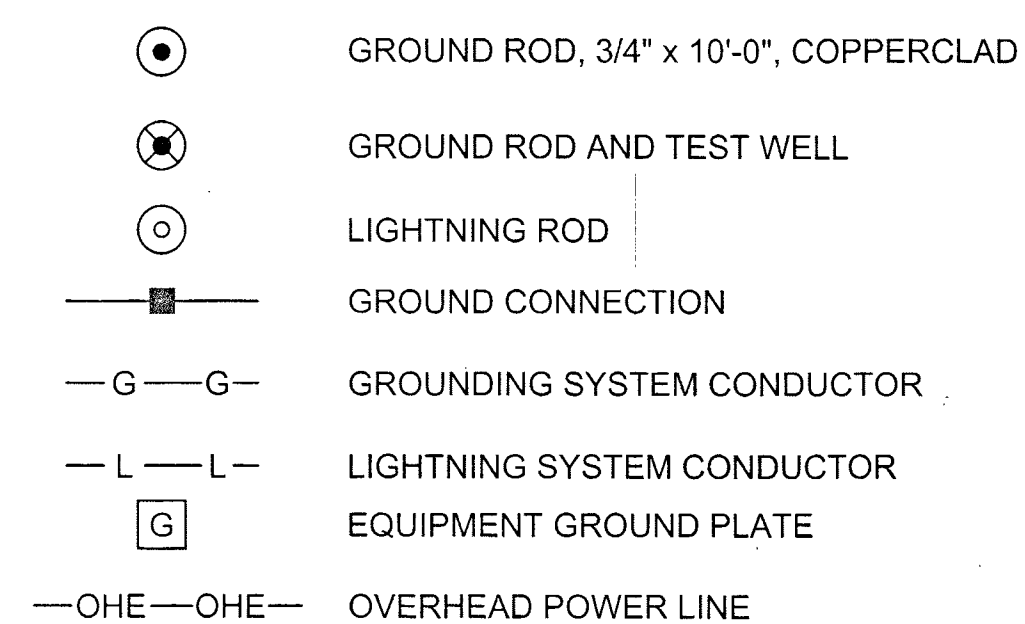
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C-02
7 of 14
DRAWING NO.
307V1096

SYMBOLS:

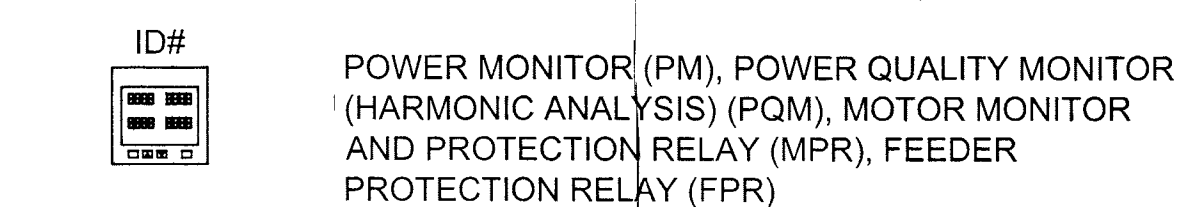
CIRCUIT AND RACEWAYS:



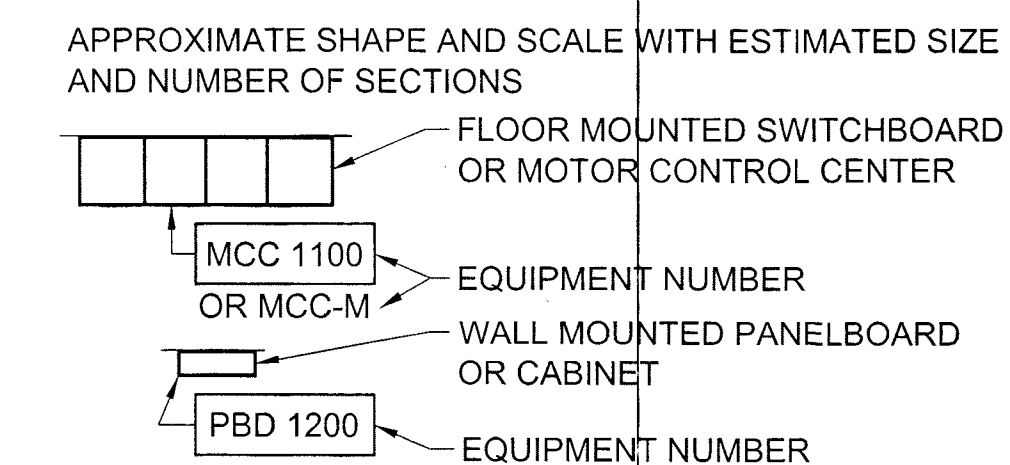
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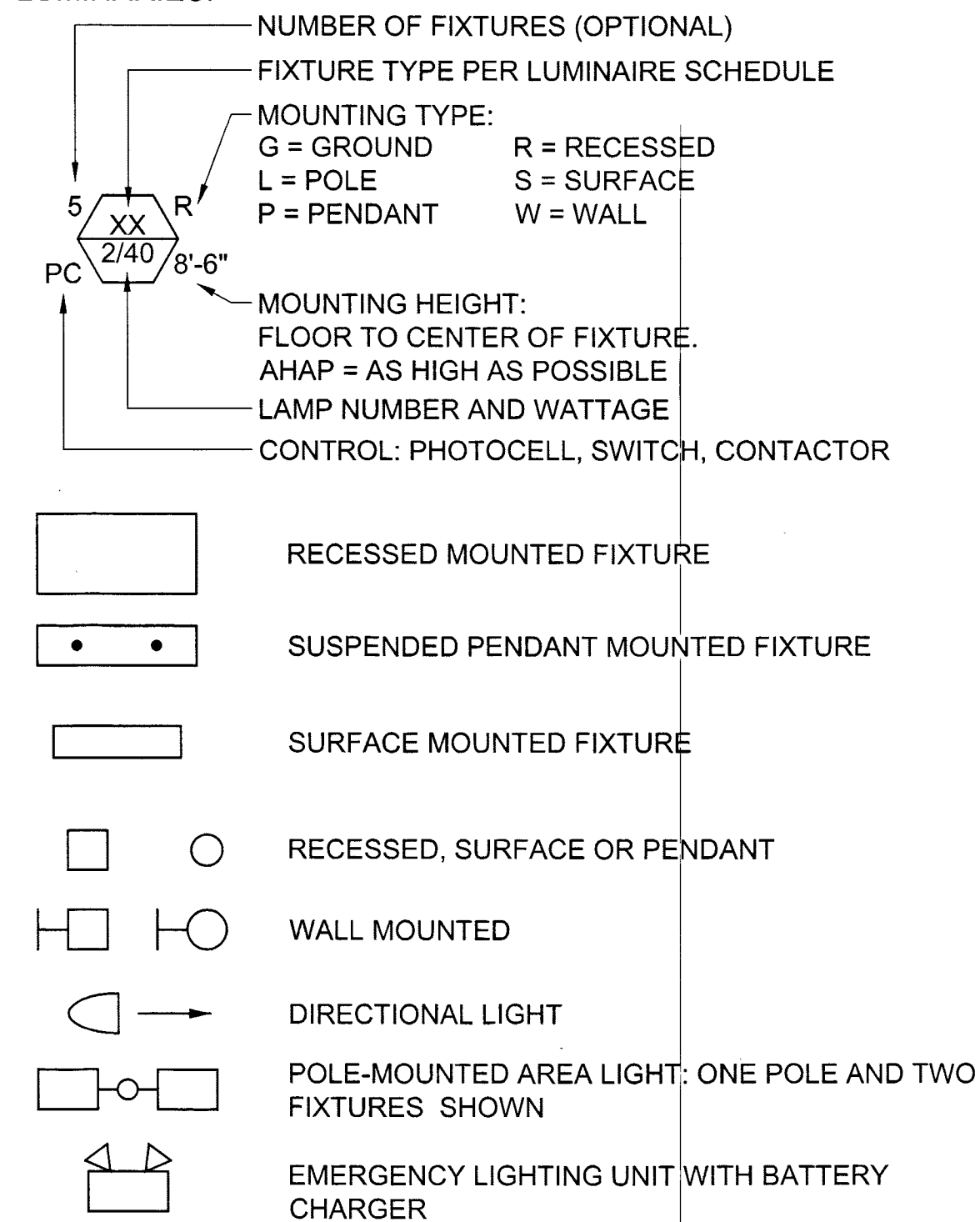
METERING (ANSI/IEEE FUNCTIONS AS SPECIFIED):



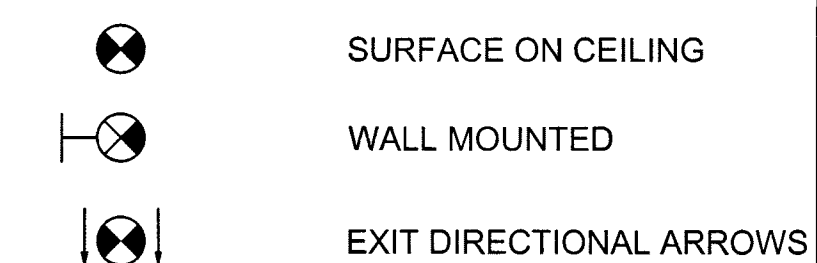
POWER DISTRIBUTION EQUIPMENT:



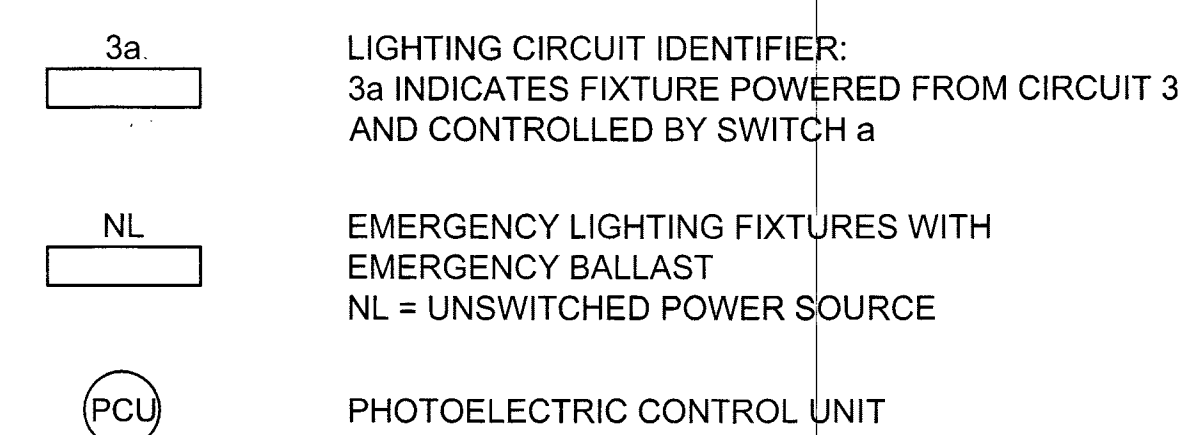
LUMINAIRES:



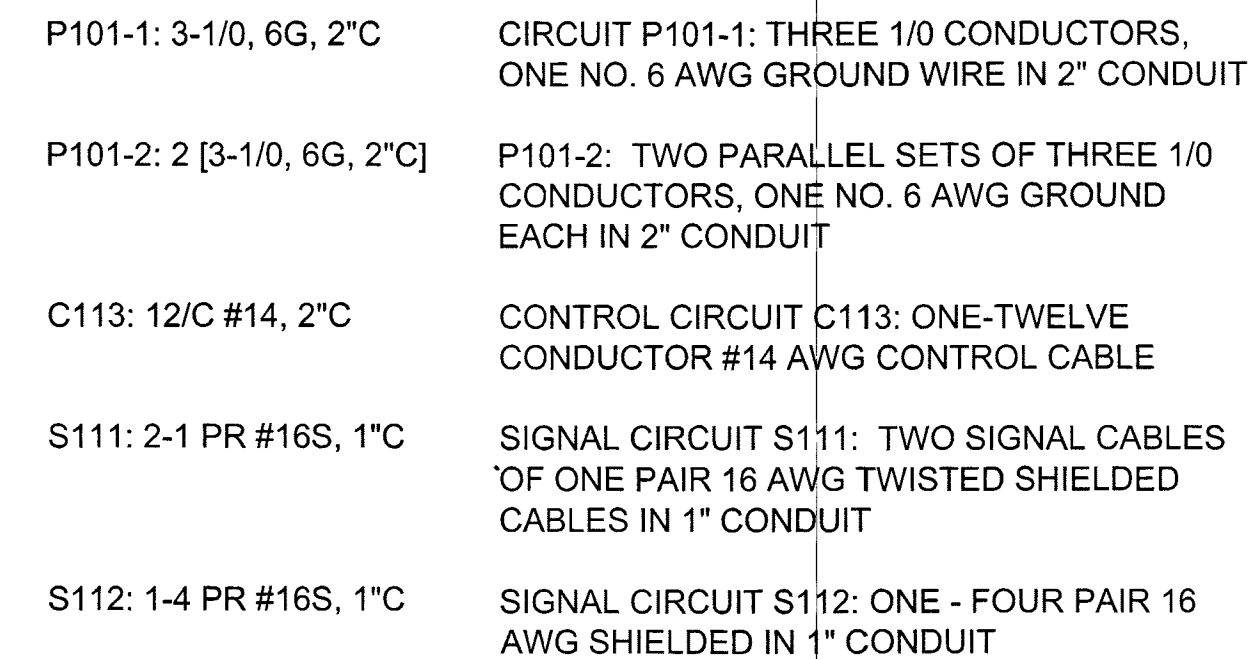
EXIT LIGHTS WITH DARK QUADRANTS INDICATE ILLUMINATED FACES:



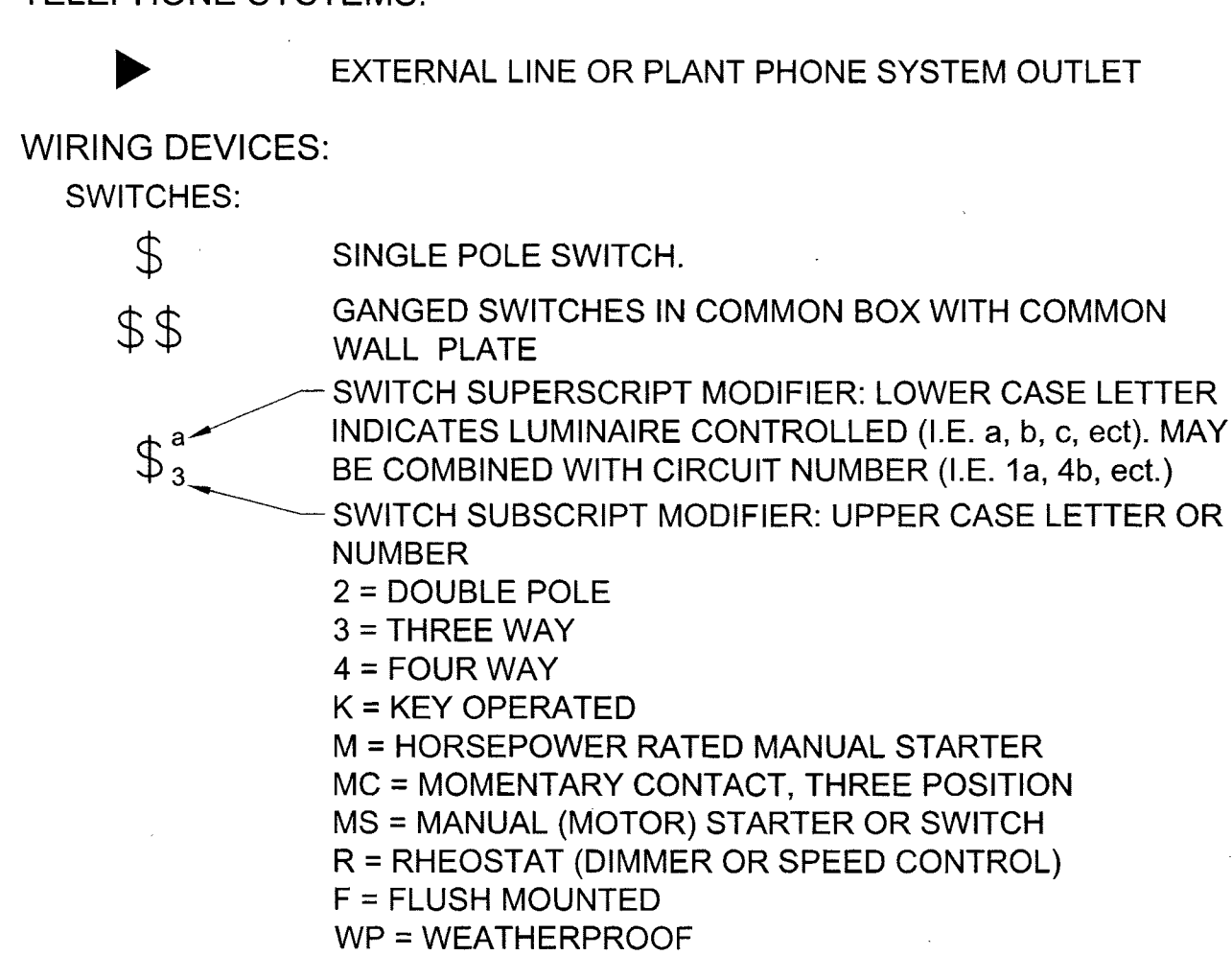
LIGHTING CONTROL AND CIRCUITING:



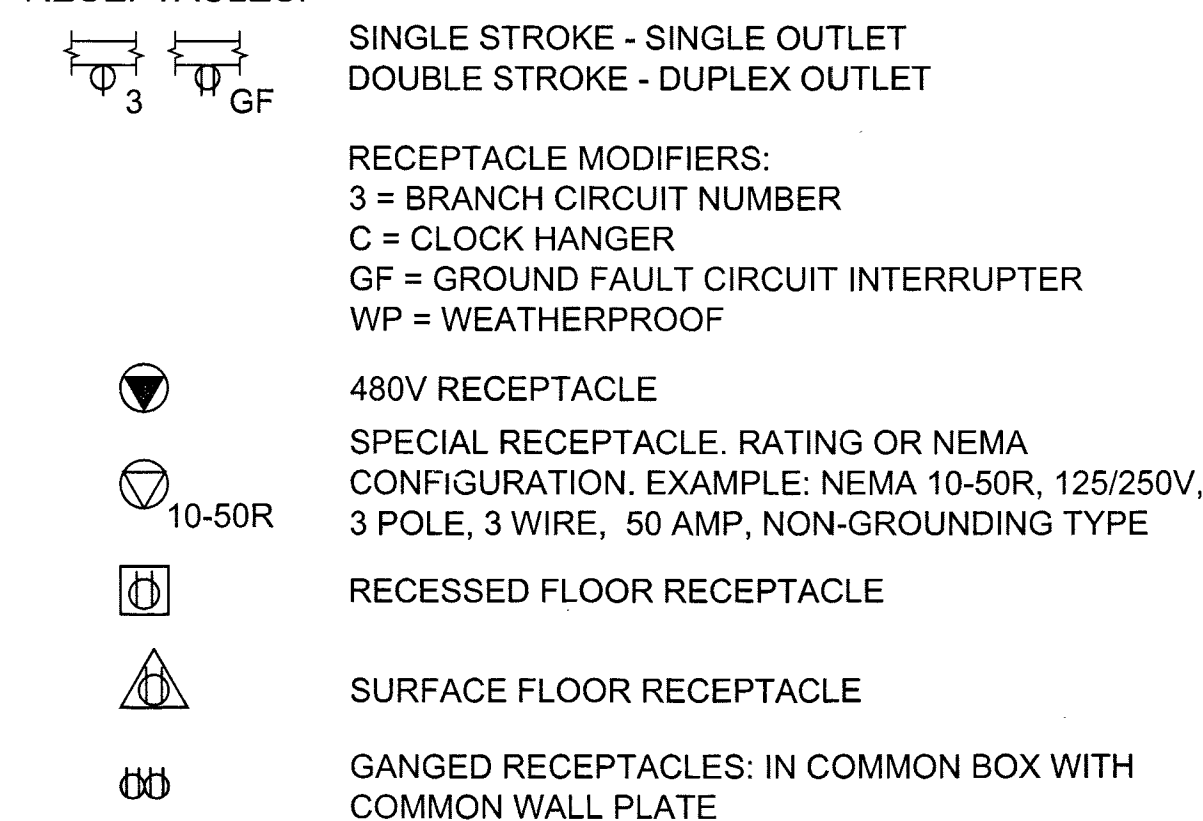
CIRCUIT IDENTIFICATION:



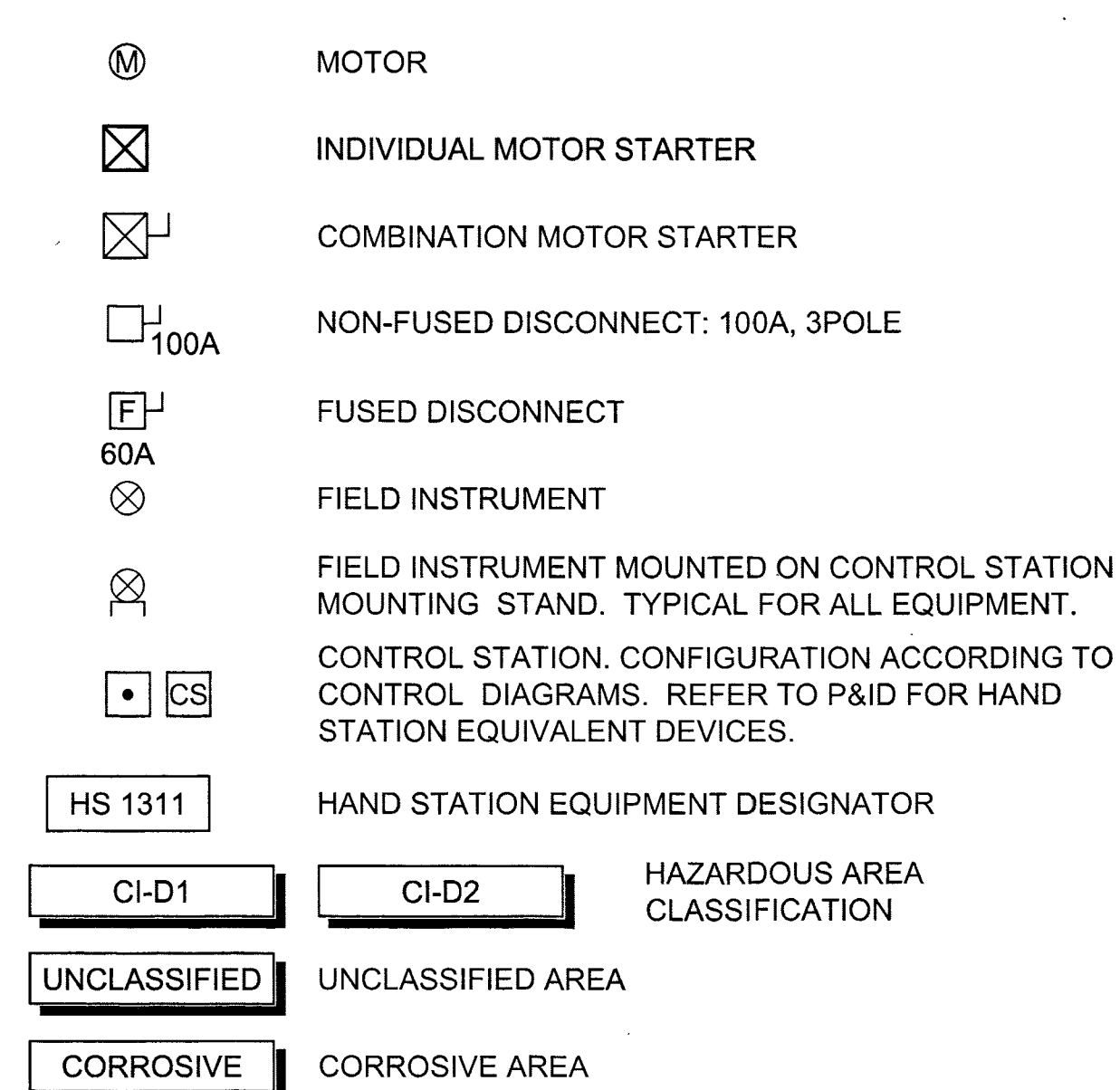
TELEPHONE SYSTEMS:



RECEPTACLES:



EQUIPMENT AND AREA CLASSIFICATIONS:



ABBREVIATIONS:

NOTES:

- ABBREVIATIONS SHOWN ON ELECTRICAL DRAWINGS ARE IN ACCORDANCE WITH ASME STANDARD Y14.38A
- ABBREVIATIONS ON THIS SHEET ARE IN ADDITION TO THE ABBREVIATIONS DEFINED ON OTHER DRAWINGS.
- ABBREVIATIONS HERE IN SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.
- ABBREVIATIONS ARE NOT EQUIPMENT NUMBERING PREFIXES LISTED ON OTHER DRAWINGS.

A, AMP	AMP(S), AMPERE(S)	HH	HANDHOLE	OT	OIL TIGHT
AC	ALTERNATING	HID	HIGH INTENSITY	OWS	OPERATOR
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER	P	POLE, PHASE
AHAP	AS HIGH AS POSSIBLE	HPS	HIGH PRESSURE SODIUM	PB	PUSH-BUTTON, PULLBOX
AIC	AMPS	HTR	HEATER	PCP	PROCESS CONTROL
AL	ALUMINUM	HV	HIGH VOLTAGE	PF	POWER FACTOR
ARCH	ARCHITECT(URAL)	HVAC	HEATING, VENTILATION, & AIR CONDITIONING	PH	PHASE
ASYM	ASYMMETRICAL	HZ	HERTZ (CYCLES PER SECOND)	PLC	PROGRAMMABLE LOGIC CONTROLLER
AUTO	AUTOMATIC	I/O	INPUT / OUTPUT	PMM	POWER MONITORING
AUX	AUXILIARY	ICOM	INTERCOM	PML	PANEL MODULE
AWG	AMERICAN WIRE GAUGE	ID	INSIDE DIAMETER	PNL	PANEL
BC	BARE COPPER	IMC	INDIVIDUAL MOTOR CONTROLLER	PP	POWER PANEL
BLDG	BUILDING	INCAND	INCANDESCENT	PRI	PRIMARY
BOT	BOTTOM	INST	INSTANTANEOUS, INSTRUMENT	PT	POTENTIAL TRANSFORMER
C	CONDUCTOR, CONDUIT	INTLK	INTERLOCK	PVC	POLYVINYL CHLORIDE
CB	CIRCUIT BREAKER	IPB	INSTRUMENT PULLBOX	PWR	POWER
CKT	CIRCUIT	JB	JUNCTION BOX	RCPT	RECEPTACLE
CLG	CEILING	KCMIL	1000 CIRCULAR MIL	RE STL	REINFORCED STEEL
CM	CENTIMETERS	KV	KILOVOLT	REF	REFERENCE
CNTL	CONTROL	KVA	KILOVOLT-AMPERE	REQD	REQUIRED
CONC	CONCRETE	KVAR	KILOVOLT-AMPERE REACTIVE	RMS	ROOT MEAN SQUARE
CPT	CONTROL POWER TRANSFORMER	KW	KILOWATT	RTD	RESISTANCE TEMPERATURE DETECTOR
CT	CURRENT	KWH	KILOWATT HOUR	RTU	REMOTE TERMINAL UNIT
CU	COPPER	L	LONG	SA	SURGE ARRESTOR
DB	DIRECT BURIAL	LA	LIGHTNING ARRESTOR	SCR	SILICON CONTROLLED RECTIFIER
DC	DIRECT CURRENT, DATA CABLE	LCP	LOCAL CONTROL PANEL	SD	SMOKE DETECTOR
DET	DETAIL	LT	LONG TIME	SEC	SECONDARY
DIAG	DIAGRAM	LTG	LIGHTING	SEL	SELECTOR
DISC	DISCONNECT	LV	LOW VOLTAGE	SPD	SURGE PROTECTIVE DEVICE
DWG	DRAWING	M	METER	SPEC	SPECIFICATION
EA	EACH	MA	MILLIAMPERE	SPKR	SPEAKER
EC	EMPTY CONDUIT	MBS	MANUAL BYPASS SWITCH	ST	SHORT TIME
ECP	EQUIPMENT	MCC	MOTOR CONTROL CENTER	SUB	SUBSTATION
EDB	ELECTRICAL DUCTBANK	MCP	MOTOR CIRCUIT PROTECTOR	SW	SWITCH
EG	ENGINE	MECH	MECHANICAL	SWBD	SWITCHBOARD
EL	ELEVATION	MFR	MANUFACTURE	SWGR	SWITCHGEAR
ELEC	ELECTRIC(AL)	MH	MANHOLE, METAL HALIDE	SYMM	SYMMETRICAL
EMER	EMERGENCY	MIC	MICROPHONE	SYS	SYSTEM
EMH	ELECTRICAL MANHOLE	MISC	MISCELLANEOUS	TB	TERMINAL BOX
ENCL	ENCLOSURE / ENCLOSED	MM	MILLIMETER	TEL	TELEPHONE
EP	EXPLOSION PROOF	MOV	MOTOR OPERATED VALVE	TEMP	TEMPERATURE
EPB	ELECTRICAL PULLBOX	MPC	MINI POWER CENTER	TFR	TRANSFORMER
EQUIP	EQUIPMENT	MTS	MANUAL TRANSFER SWITCH	TRI	TRIAD
EX	EXISTING	MV	MILLIVOLT, MEDIUM VOLTAGE	TV	TELEVISION
F.O.	FAIL OPENED	N/C	NORMALLY CLOSED	TYP	TYPICAL
FDR	FEEDER	N.O.	NORMALLY OPENED	U/G	UNDERGROUND
FL	FLUORESCENT	N/A	NOT APPLICABLE	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	NEUT,N	NEUTRAL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FLEX	FLEXIBLE CONDUIT	NF	NON-FUSED	V	VOLT
FO	FIBER OPTIC	NIC	NOT IN CONTRACT	VA	VOLT-AMPERE
FUT	FUTURE	NO.	NUMBER	VAR	VOLT-AMPERE REACTIVE
GDR	GROUNDING RESISTOR	NOM	NOMINAL	VC	VACUUM CONTACTOR
GEC	GROUND ELECTRODE CONDUCTOR	NP	NAMEPLATE	W	WATT, WIRE, WIDE
GF	GROUND FAULT	NTS	NOT TO SCALE	W/	WITH
GFI	GROUND FAULT INTERRUPTER	OC	ON CENTER	W/O	WITHOUT
GND, G	GROUND	OD	OUTSIDE DIAMETER	WG	WITH GROUND
GRS	GALVANIZED RIGID STEEL	OH	OVERHEAD	WP	WEATHERPROOF
H	HIGH	OIS	OPERATOR	WW	WIREWAY
HGT	HEIGHT		INTERFACE STATION	XMTR	TRANSMITTER
				Z	IMPEDANCE

Brown AND Caldwell8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTIONCITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTSSHEET:
E-08 of 4
DRAWING NO
3071096

SYMBOLS, ABBREVIATIONS AND NOTES

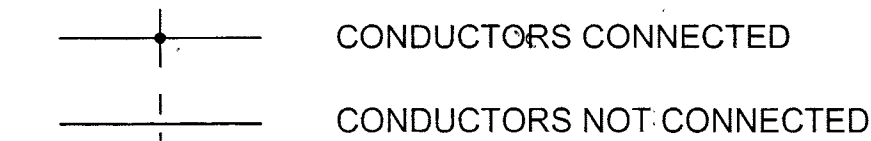
5/14/15

4

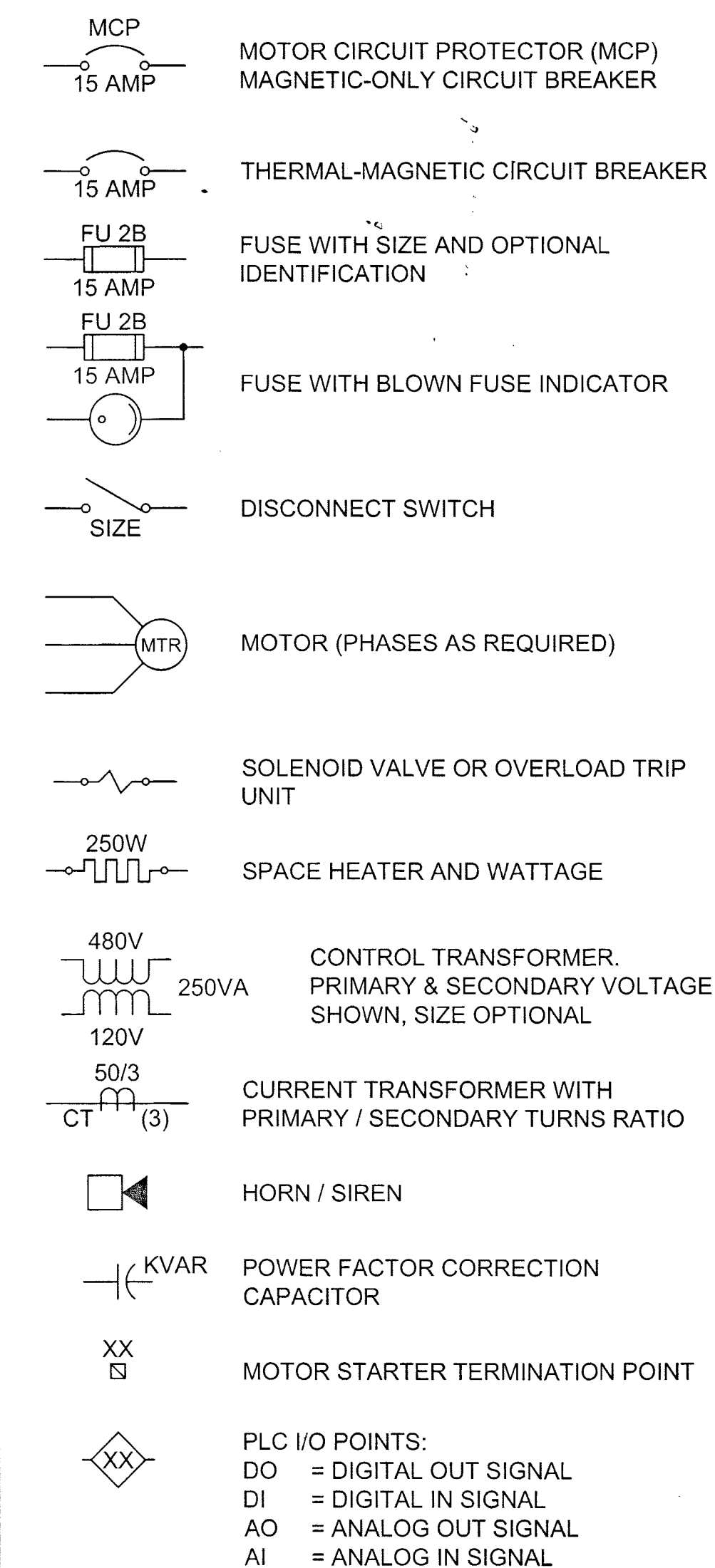
5/14/14 \\BCEGEP01\PROJECTS\LAS VEGAS\143895-SMALL DIAMETER ASSESSMENT - YEAR 4\11-CADD\2-SHEETS\ELECTRICAL\143895-E02.DWG

CONTROL DIAGRAMS:

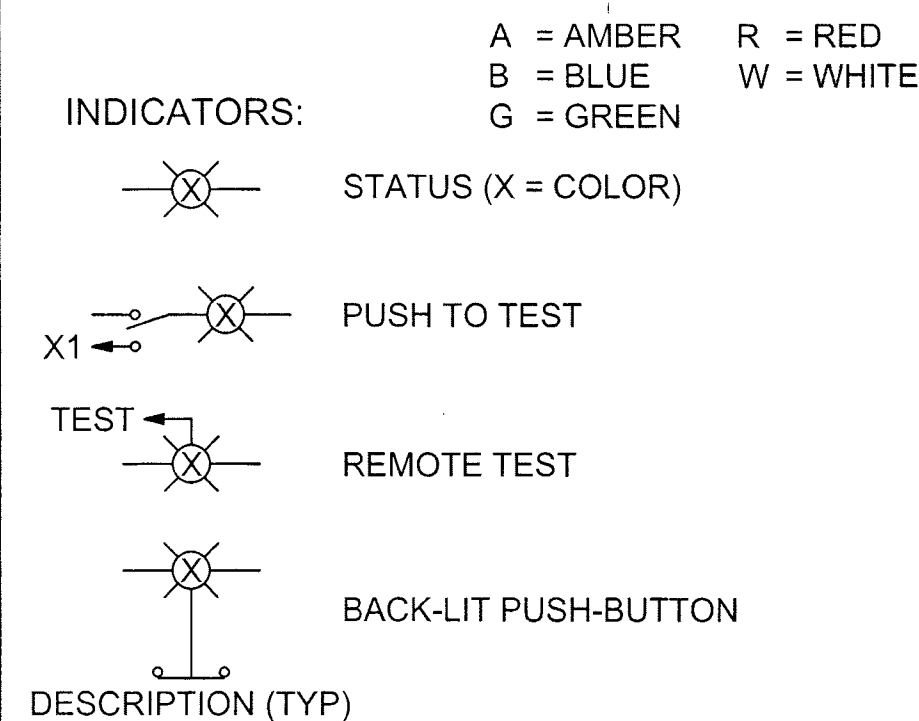
LINEWORK:



MISCELLANEOUS:

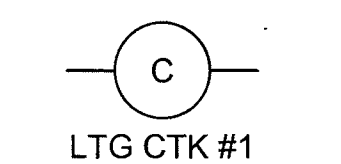


STATUS INDICATORS: SHOWN WITH DESCRIPTION AND COLOR (X):

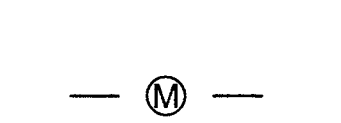
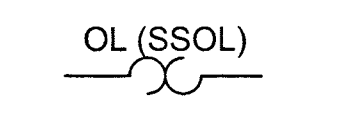
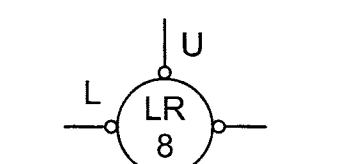
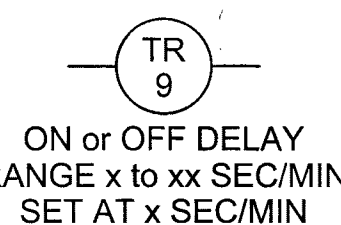


DESCRIPTION (TYP)

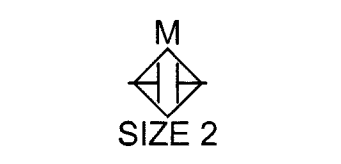
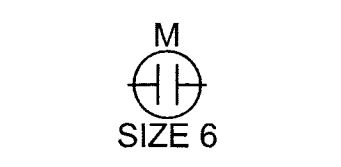
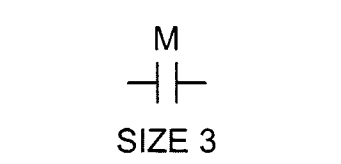
COILS:



AUTO ENABLE

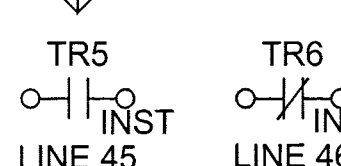
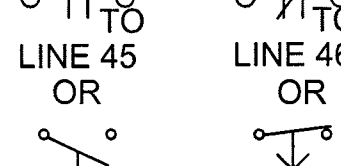
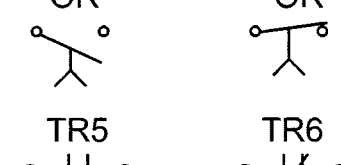
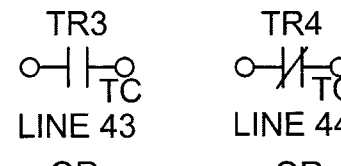
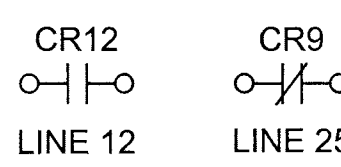


POWER CONTACTORS:



SWITCH OR INTERLOCK CONTACTS:

NORMALLY OPEN (NO) NORMALLY CLOSED (NC)



A) RELAYS OR CONTACTOR COILS WITH DESCRIPTION OR REFERENCE
C = CONTACTOR, LIGHTING OR GENERAL USE
F = FAST OR FORWARD
IC = ISOLATION CONTACTOR
M = MAIN OR LINE
MO = MOTOR OPERATED
R = RUN OR REVERSE
S = SLOW OR START
T = TRIP COIL
1M = FIRST MAIN OR WYE
2M = SECOND OR DELTA
B) RELAY COILS WITH NUMERIC PREFIX OR SUFFIX
CR = CONTROL RELAY
MR = MACHINE TOOL RELAY
TR = TIMING RELAY
C) TIME DELAY COIL WITH NUMERIC PREFIX OR SUFFIX, DELAY ACTION, TIMING RANGE AND SETTING
ON or OFF DELAY
RANGE x to xx SEC/MIN
SET AT x SEC/MIN

D) MECHANICALLY LATCHED RELAY WITH UNLATCH COIL

METER WITH ALPHA IDENTIFIERS
ETM = ELAPSED TIME
A = AMMETER
V = VOLTMETER

AIR-BREAK CONTACTOR WITH NEMA SIZE

VACUUM CONTACTOR WITH NEMA SIZE

REDUCED VOLTAGE SOLID STATE STARTER

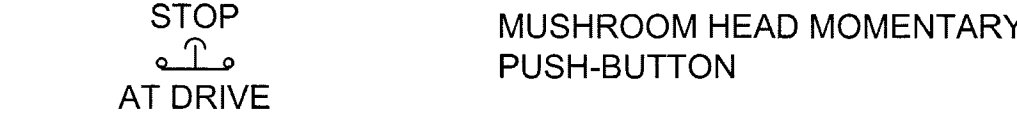
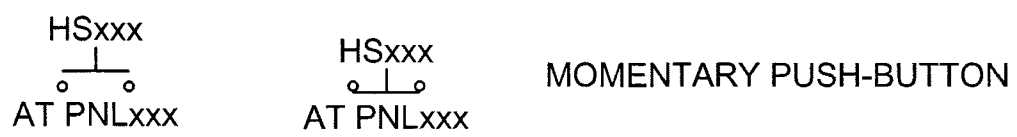
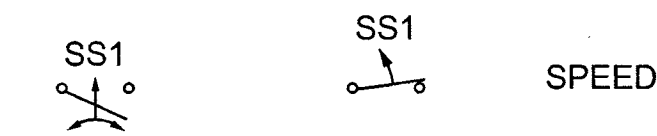
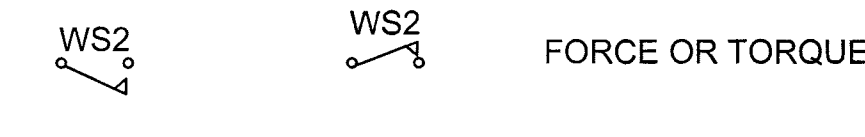
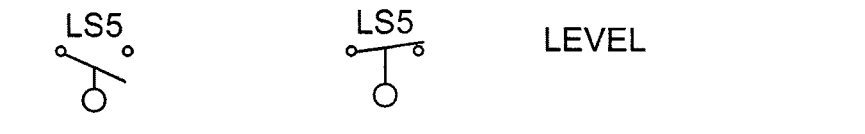
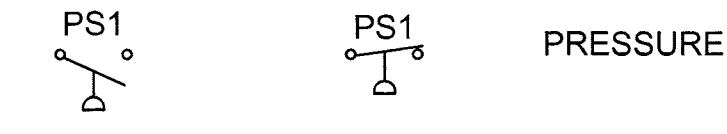
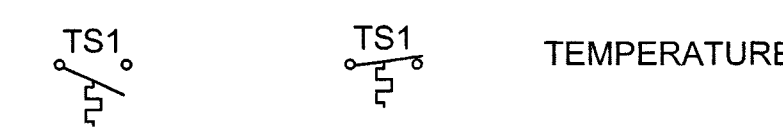
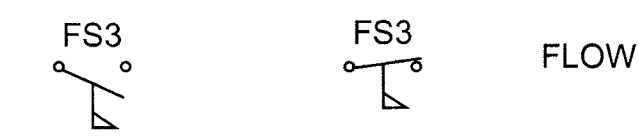
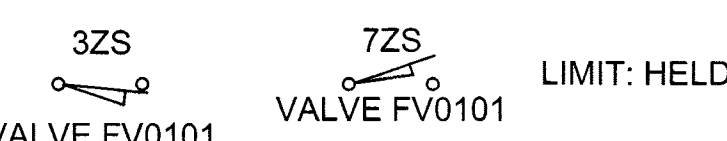
CONTROL RELAY CONTACTS

ON DELAY (DELAY ON COIL ENERGIZATION) RELAY CONTACTS
TC = NORMALLY OPEN, TIME CLOSED
TO = NORMALLY CLOSED, TIME OPENED

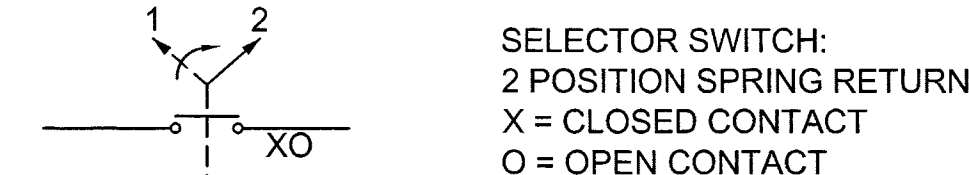
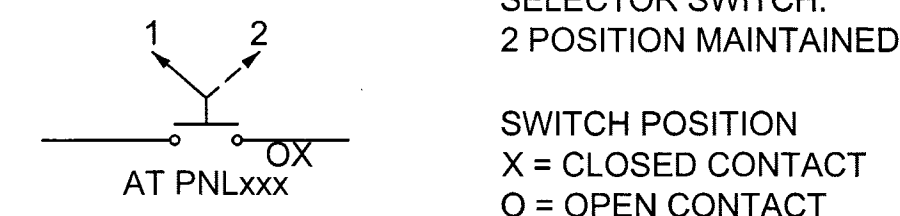
OFF DELAY (DELAY ON COIL DE-ENERGIZATION) RELAY CONTACTS
TO = NORMALLY OPEN, TIME OPENED
TC = NORMALLY CLOSED, TIME CLOSED

TIME DELAY RELAY INSTANTANEOUS CONTACTS

SWITCHES: (SHOWN WITH OPTIONAL LOCATION REFERENCE)
NORMALLY OPEN (NO) NORMALLY CLOSED (NC)



DESCRIPTION



AT PNLxxx

AT PNLxxx

AT PNLxxx

AT PNLxxx

AT PNLxxx

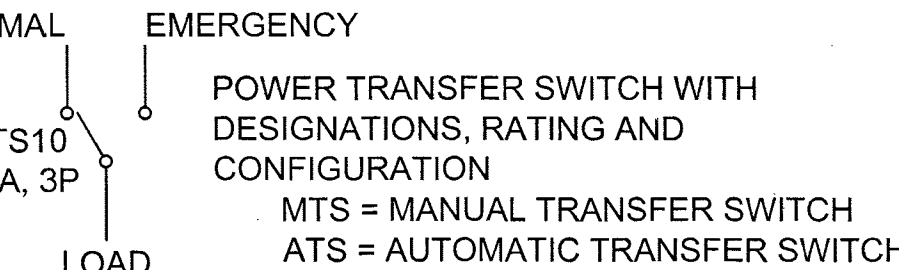
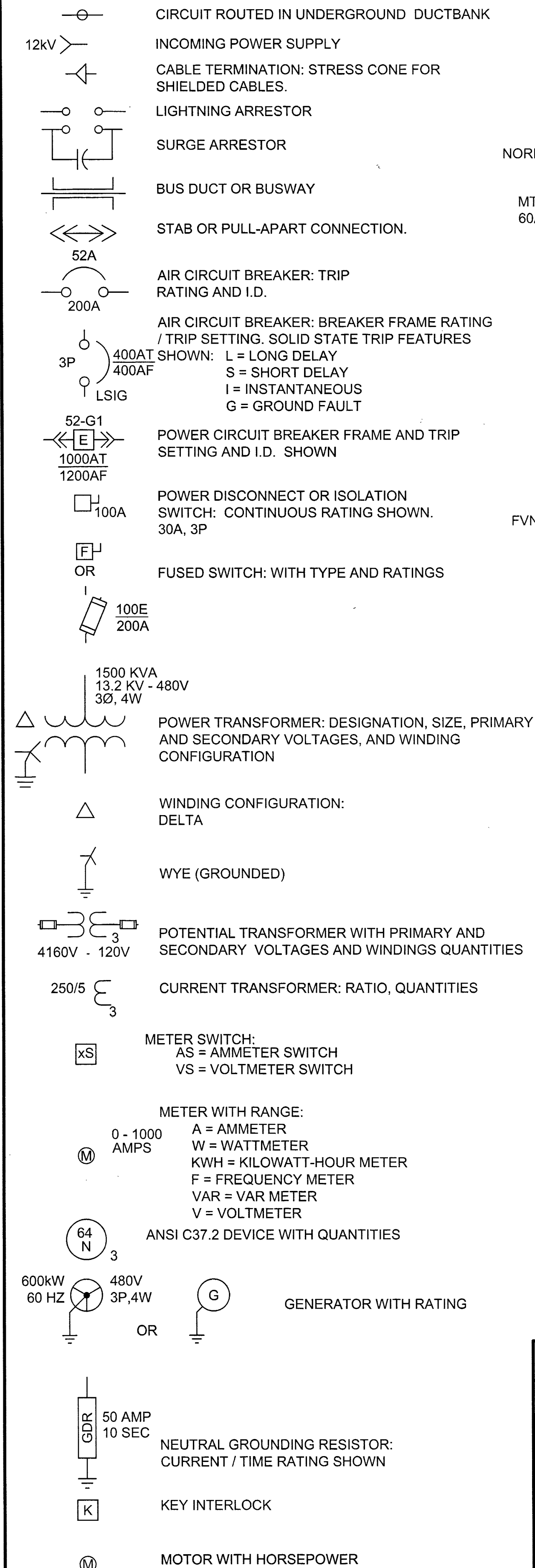
AT PNLxxx

AT PNLxxx

AT PNLxxx

AT PNLxxx

ONE LINE DIAGRAMS:



GROUND ROD ELECTRODE

CONTROL STATION PER CONTROL DIAGRAMS

FIELD INSTRUMENT OR DEVICE

POWER FACTOR CORRECTION CAPACITOR: KVAR RATING

MOTOR CONTACTOR (SIZE 1)

FVR = FULL VOLTAGE, REVERSING STARTER

FVNR = FULL VOLTAGE NON-REVERSING STARTER

RVSS = REDUCED VOLTAGE SOLID-STATE STARTER

2S2W = TWO SPEED, TWO WINDING STARTER

GENERAL NOTES:

1. SYMBOLS AND ABBREVIATION DRAWINGS ARE GENERAL IN NATURE.
2. NOT ALL SYMBOLS OR ABBREVIATIONS SHOWN ON DRAWINGS E-01 AND E-02 ARE USED IN SUBSEQUENT DRAWINGS.

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REVISIONS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

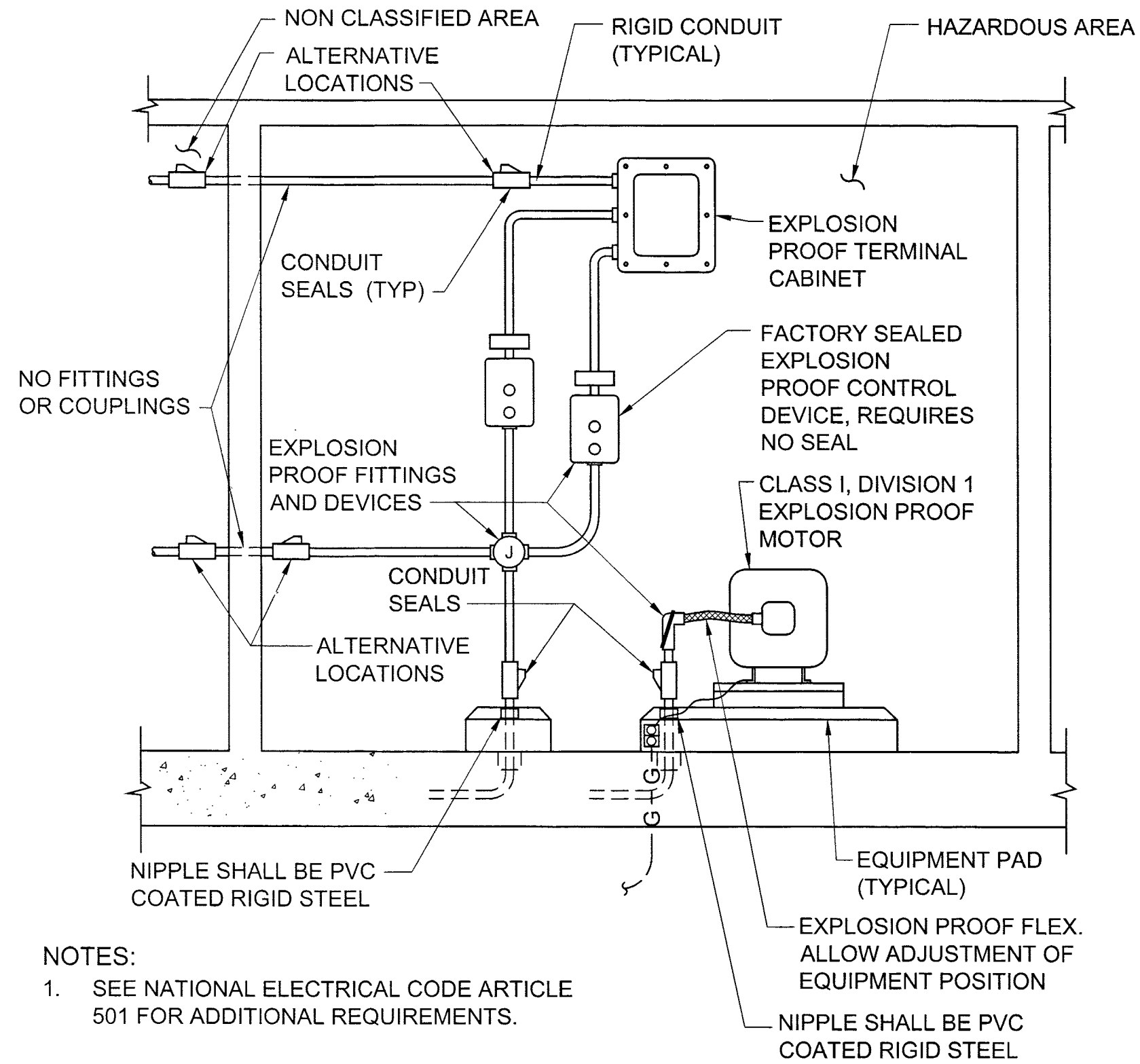
CITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTS

SHEET: E-02
9 of 4
3071105

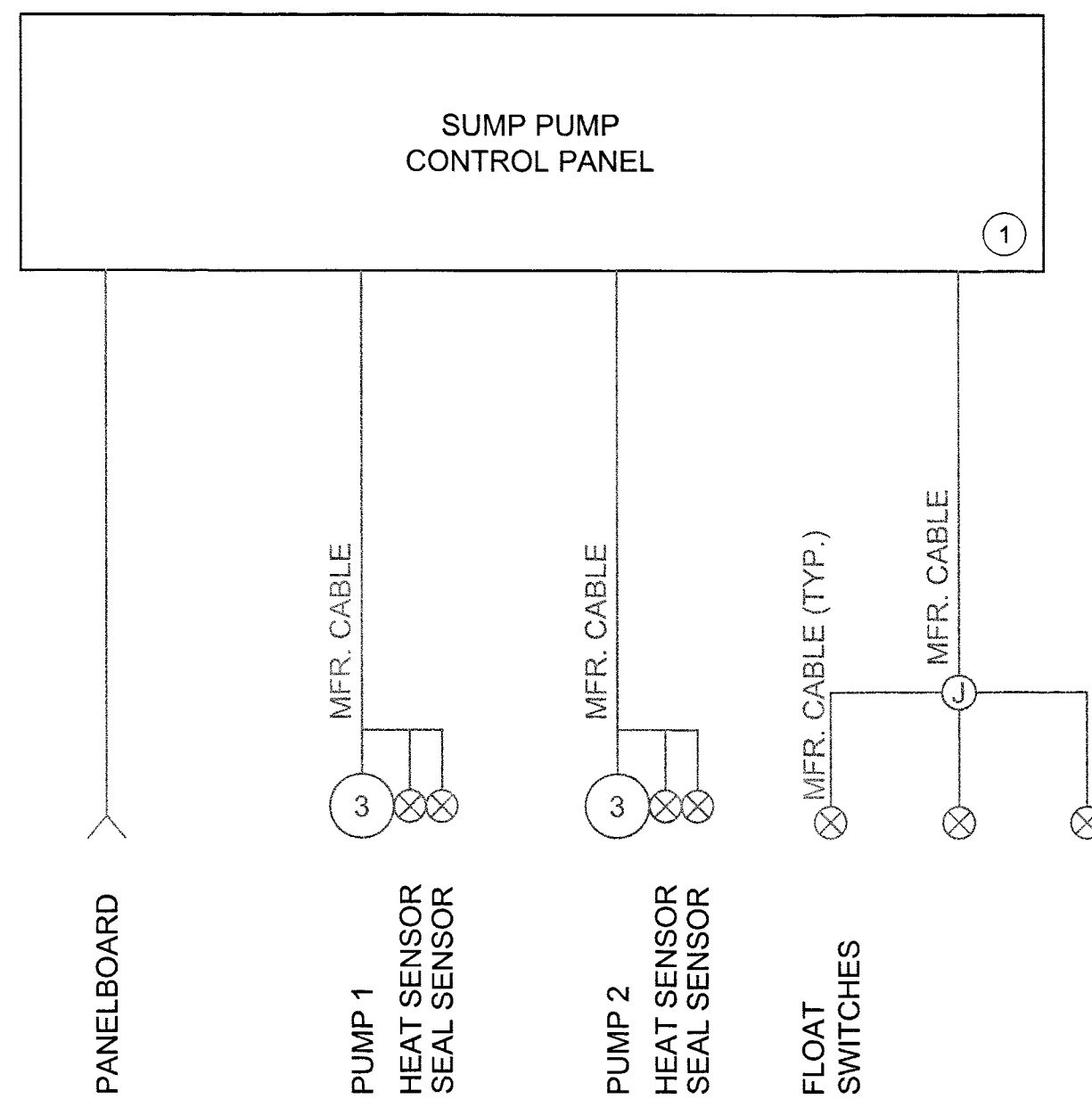
DATE: 5/14/2014
DRAWN BY: CJR
CHECKED BY:

DIAGRAM LEGENDS AND SYMBOLS

5/14/14 \\BCEGFP01\PROJECTS\LAS VEGAS\143895-SMALL DIAMETER ASSESSMENT - YEAR 4\11-CADD\2-SHEETS\ELECTRICAL\143895-E03.DWG



HAZARDOUS AREA RACEWAYS
TYPICAL
DETAIL (E2901)
SCALE: NONE



SINGLE-LINE DIAGRAM
DETAIL (A)
E-4
SCALE: NONE

GENERAL NOTES:

- REPLACE SUMP PUMP CONTROL PANEL .CONTROLS TO MATCH EXISTING, REFER TO DRAWINGS E-11, E-12 AND E-13 FOR HYDROMATIC PUMP SCHEMATICS.
- COORDINATE SHUTDOWN FOR REPLACEMENT WITH THE OWNER.

KEY NOTES:

- CONTROL PANEL, SUBMIT FOR APPROVAL PRIOR TO FABRICATION: UL508A LABELED. UL913 INTRINSICALLY SAFE CIRCUITS FOR FLOATS AND SENSORS. SWING-OUT DEAD FRONT INTERNAL DOOR WITH DISCONNECT. ALL CONTROLS ON INTERNAL DOOR, NOT ON EXTERNAL DOOR. NEMA 4 OR 4X ENCLOSURE.

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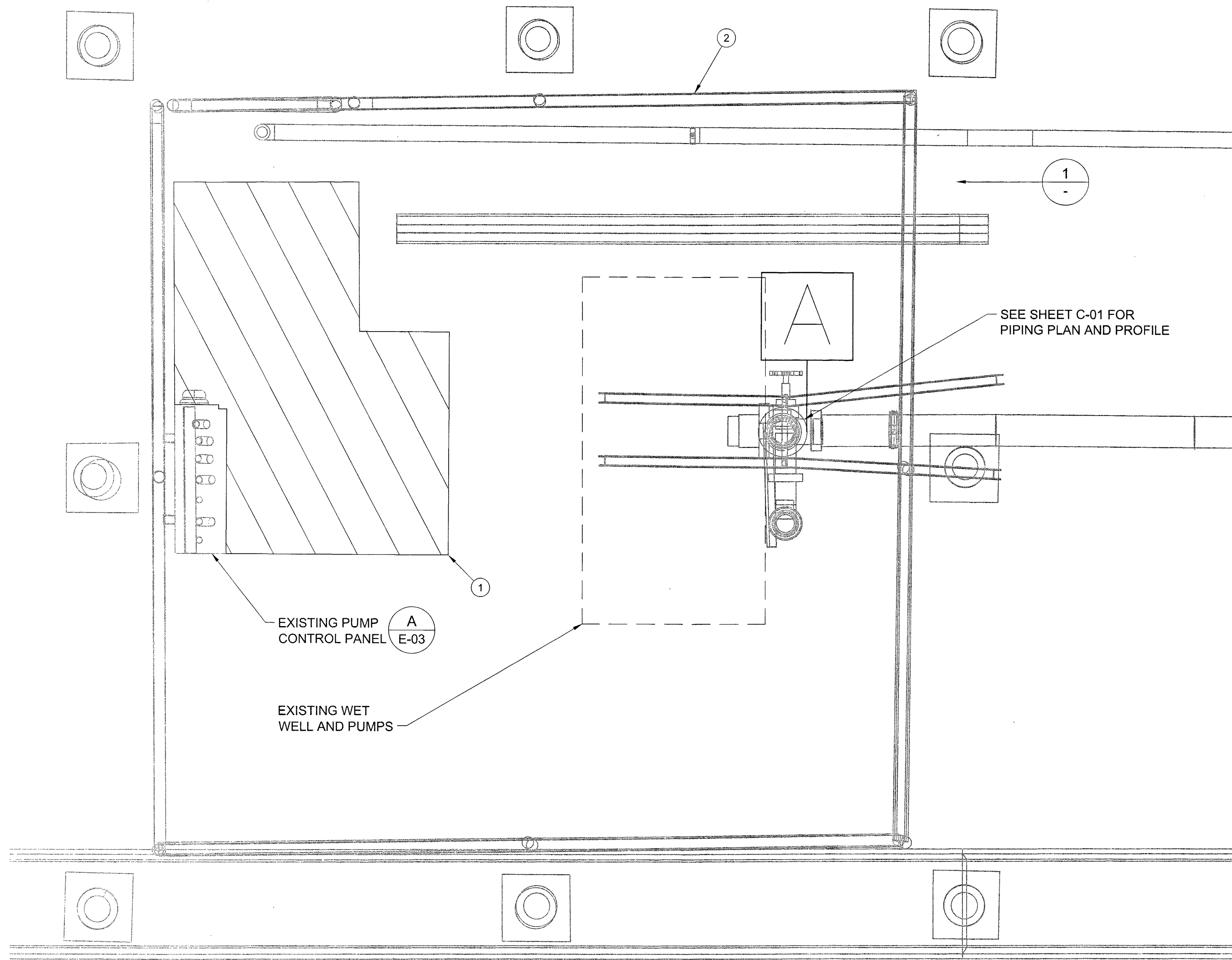
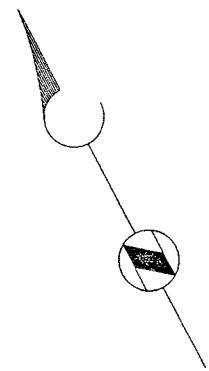
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

TITLE: CITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTS

DETAILS

Sheet
E-03
10 of 4
DRAWING NO.
307V1016

11/20/14 \\BCVEG\PROJECTS\LAS VEGAS\143895-SMALL DIAMETER ASSESSMENT - YEAR 4\11-CADD\2-SHEETS\ELECTRICAL\143895-E04.DWG



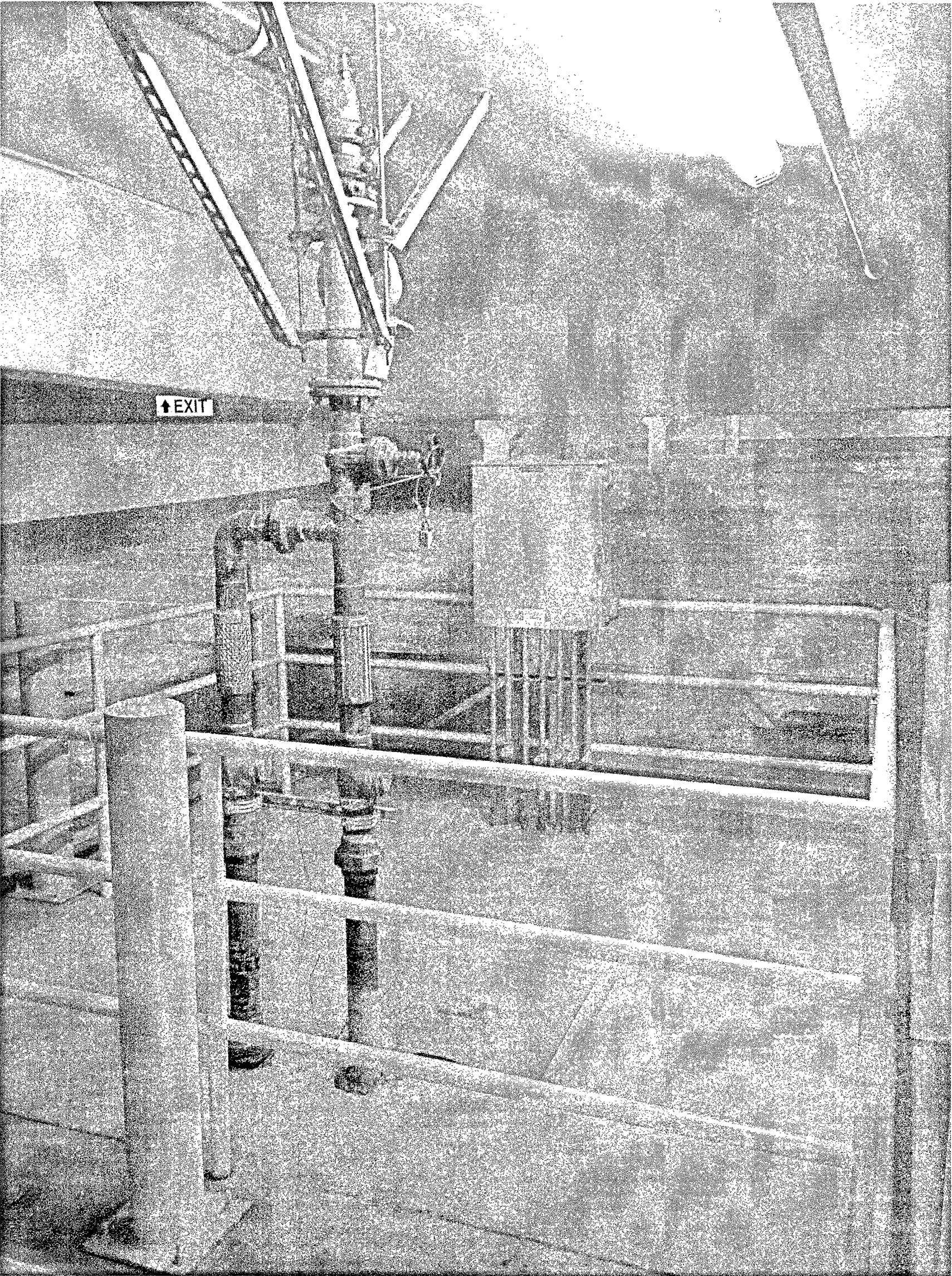
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GENERAL NOTES:

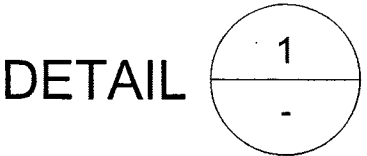
- HAZARDOUS AREA: CLASS I DIVISION 1 INSIDE WET WELL, SEWER, AND MANHOLES.
- HAZARDOUS AREA: CLASS I DIVISION 2 18" ABOVE AND 3 FOOT PERIMETER OF WET WELL HATCH.
- MODIFY ANY EXISTING CIRCUIT RACEWAYS IN HAZARDOUS AREAS PER DETAIL E2901/E-03 AND THE NEC ARTICLE 500 AND 501: HAZARDOUS LOCATIONS.

KEY NOTES:

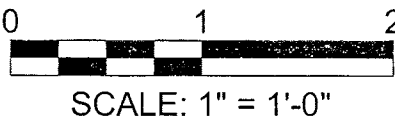
- NEC WORKING SPACE TO REMAIN CLEAR
- EXISTING GUARD RAIL



EXISTING SUMP RISER AND CONTROL PANEL

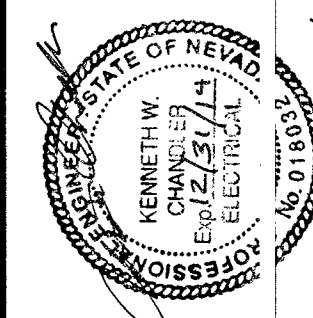


SCALE: NONE



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

TITLE: CITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTS



Sheet
E-04
11 of 4
DRAWING NO.
307V1026

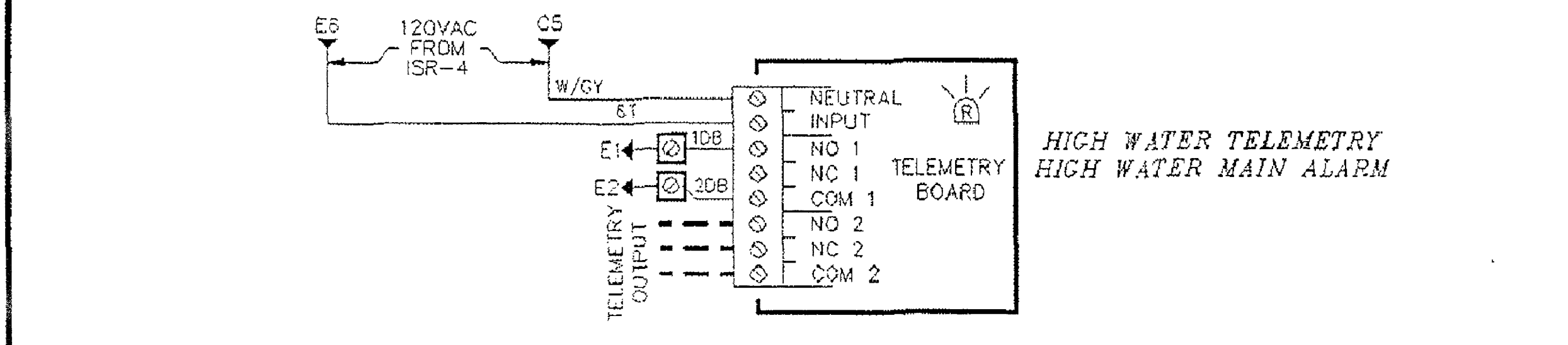
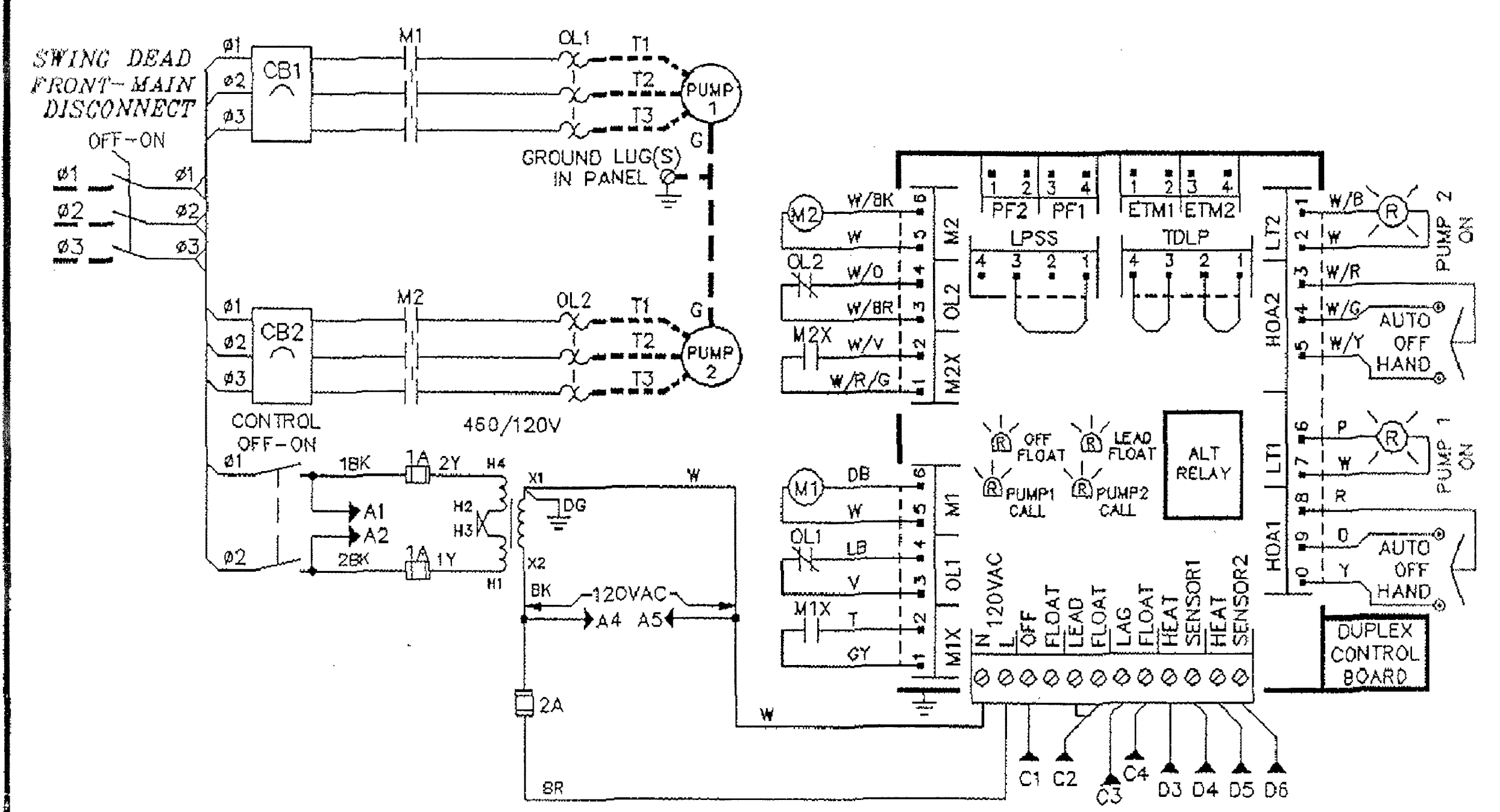
SHEET: PARKING GARAGE SUMP PUMPS

DESIGNED BY: CJR
DRAWN BY: CJR
CHECKED BY:
DATE: 11/20/2014

REVISIONS	NO.	DATE	DESCRIPTION	APP'D

460 VOLTS, THREE PHASE, DUPLEX

NOTE: CONNECT PANEL GROUND LUG TO A GROUND ROD
OR A GROUND WIRE FROM THE SUPPLY SERVICE



BASE TYPE BA3 NOTE: USE COPPER, 60°C WIRE INSULATION FOR ALL FIELD WIRING TERMINALS

MODEL NO. 4.8-BA3-BB2-BC1-BE2-BN1-FA2-FD3-PH3-Q02

**HYDROMATIC PUMPS**

ELECTRICAL SCHEMATIC/DIAGRAM

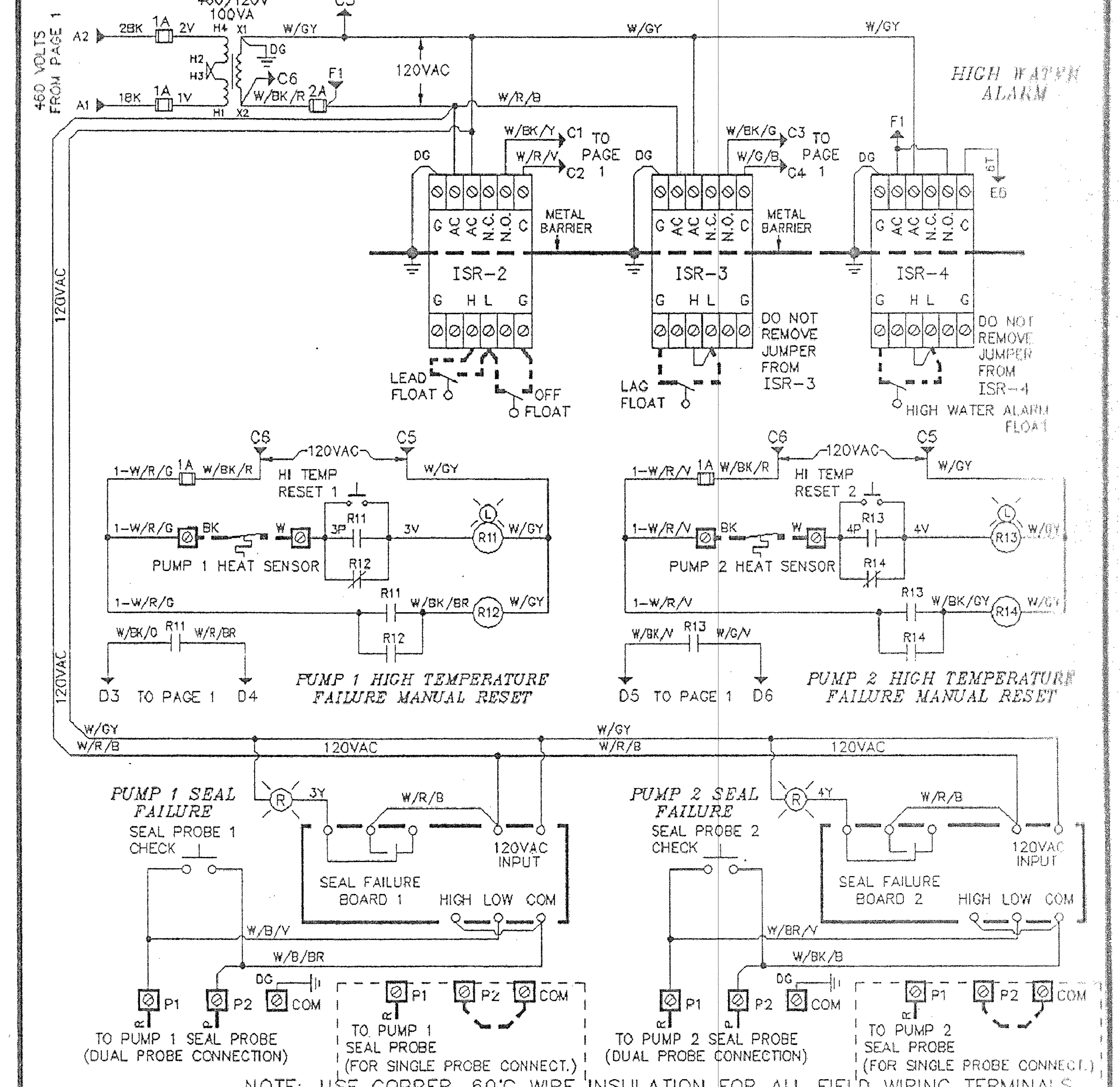
PANEL PART NO. 6201E296035

DATE: 05-03-2001 PAGE 1 OF 3

NOTE: **WARNING:** DISCONNECT POWER BEFORE SERVICING!
IMPORTANT: METAL BACK PANEL TO BE CONNECTED TO A GOOD GROUND IN ACCORDANCE WITH LOCAL ELECTRICAL CODES
SYMBOLS FOR CONTINUATION OF WIRING WITHIN THIS SCHEMATIC

INTRINSICALLY SAFE, U.L. 913, 460 VOLTS, DUPLEX CONTROLS

CAUTION: MAINTAIN SEPARATION BETWEEN INTRINSICALLY SAFE WIRING AND OTHER WIRING.
REMOVAL OF METAL BARRIERS WILL VOID THE INTRINSIC SAFETY. REFERENCE INSTALLATION MANUAL FOR DETAILS.



NOTE: USE COPPER, 60°C WIRE INSULATION FOR ALL FIELD WIRING TERMINALS

MODEL NO. 4.8-BA3-BB2-BC1-BE2-BN1-FA2-FD3-PH3-Q02

**HYDROMATIC PUMPS**

ELECTRICAL SCHEMATIC/DIAGRAM

PANEL PART NO. 6201E296035

DATE: 05-03-2001 PAGE 2 OF 3

NOTE: **WARNING:** DISCONNECT POWER BEFORE SERVICING!
IMPORTANT: METAL BACK PANEL TO BE CONNECTED TO A GOOD GROUND IN ACCORDANCE WITH LOCAL ELECTRICAL CODES
SYMBOLS FOR CONTINUATION OF WIRING WITHIN THIS SCHEMATIC

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTS

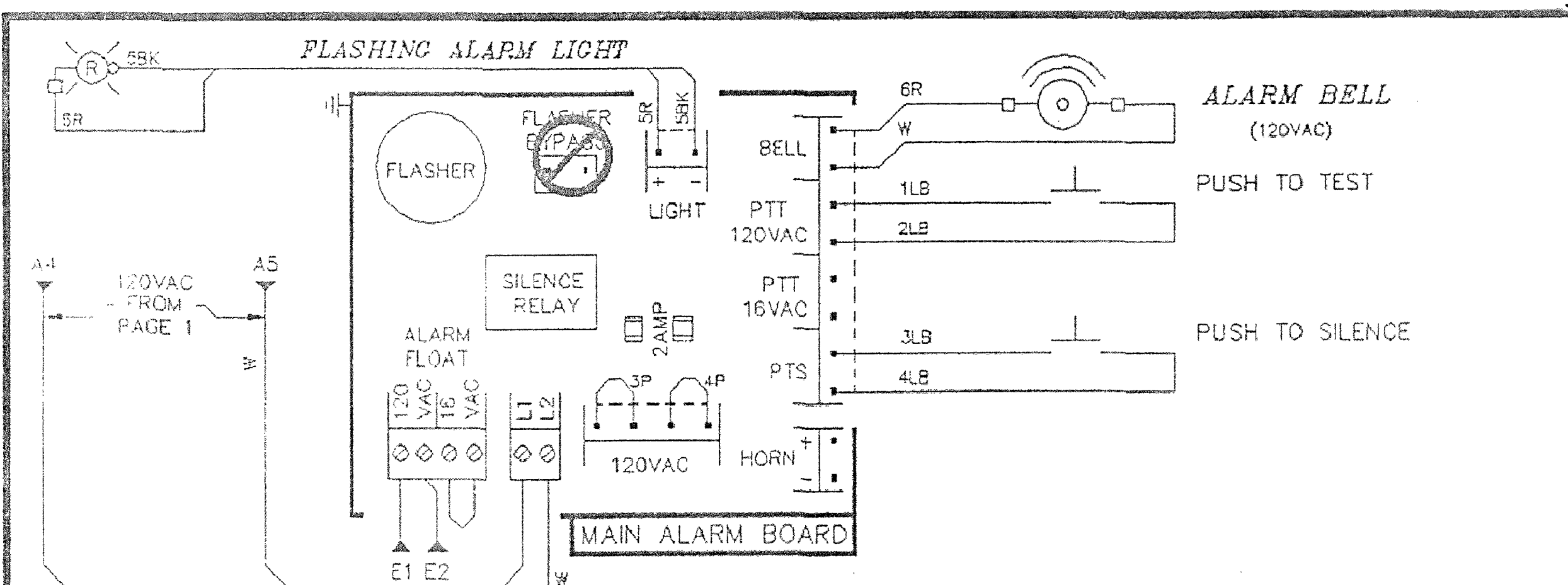
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DRAWING

Sheet
E-11
12 of 4
DRAWING NO
3071106

CONTROL PANEL SCHEMATICS 1 OF 3

DATE: 5/14/2014
DRAWN BY: CJR
CHECKED BY:

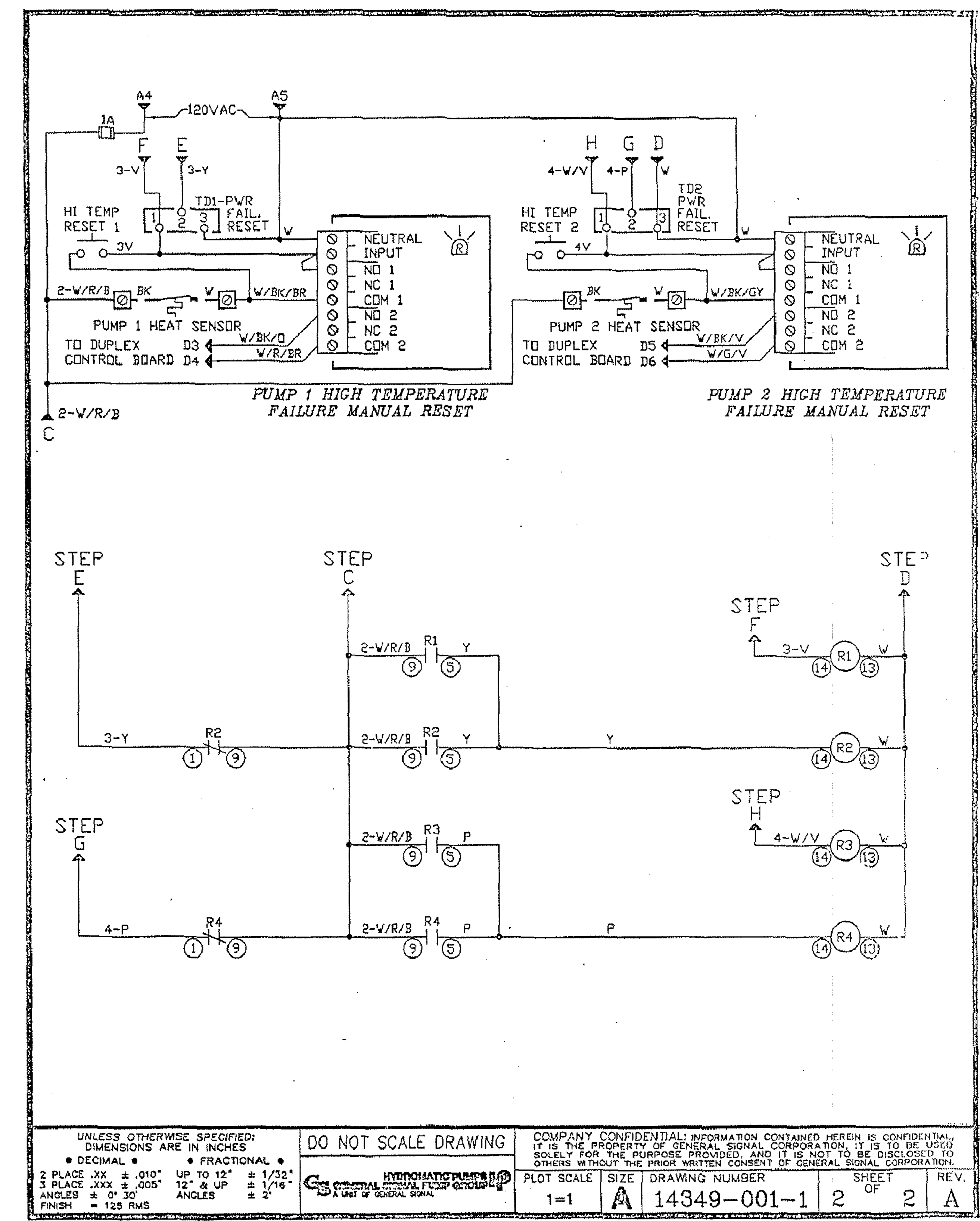
NO. DATE: 5/14/2014
DESCRIPTION: CONTROL PANEL SCHEMATICS 1 OF 3
APP'D:



NOTE: USE COPPER, 60°C WIRE INSULATION FOR ALL FIELD WIRING TERMINALS

MODEL NO. 4.8-BA3-BB2-BC1-BE2-BN1-FA2-FD3-PH3-Q02

HP HYDROMATIC PUMPS	ELECTRICAL SCHEMATIC/DIAGRAM	PANEL PART NO. 6201E296035	
		DATE: 05-03-2001	PAGE 3 OF 3
WARNING: DISCONNECT POWER BEFORE SERVICING !			
IMPORTANT: METAL BACK PANEL TO BE CONNECTED TO A GOOD GROUND IN ACCORDANCE WITH LOCAL ELECTRICAL CODES			
→ SYMBOLS FOR CONTINUATION OF WIRING WITHIN THIS SCHEMATIC →			



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY CENTER PLACE GROUNDWATER
DISCHARGE IMPROVEMENTS

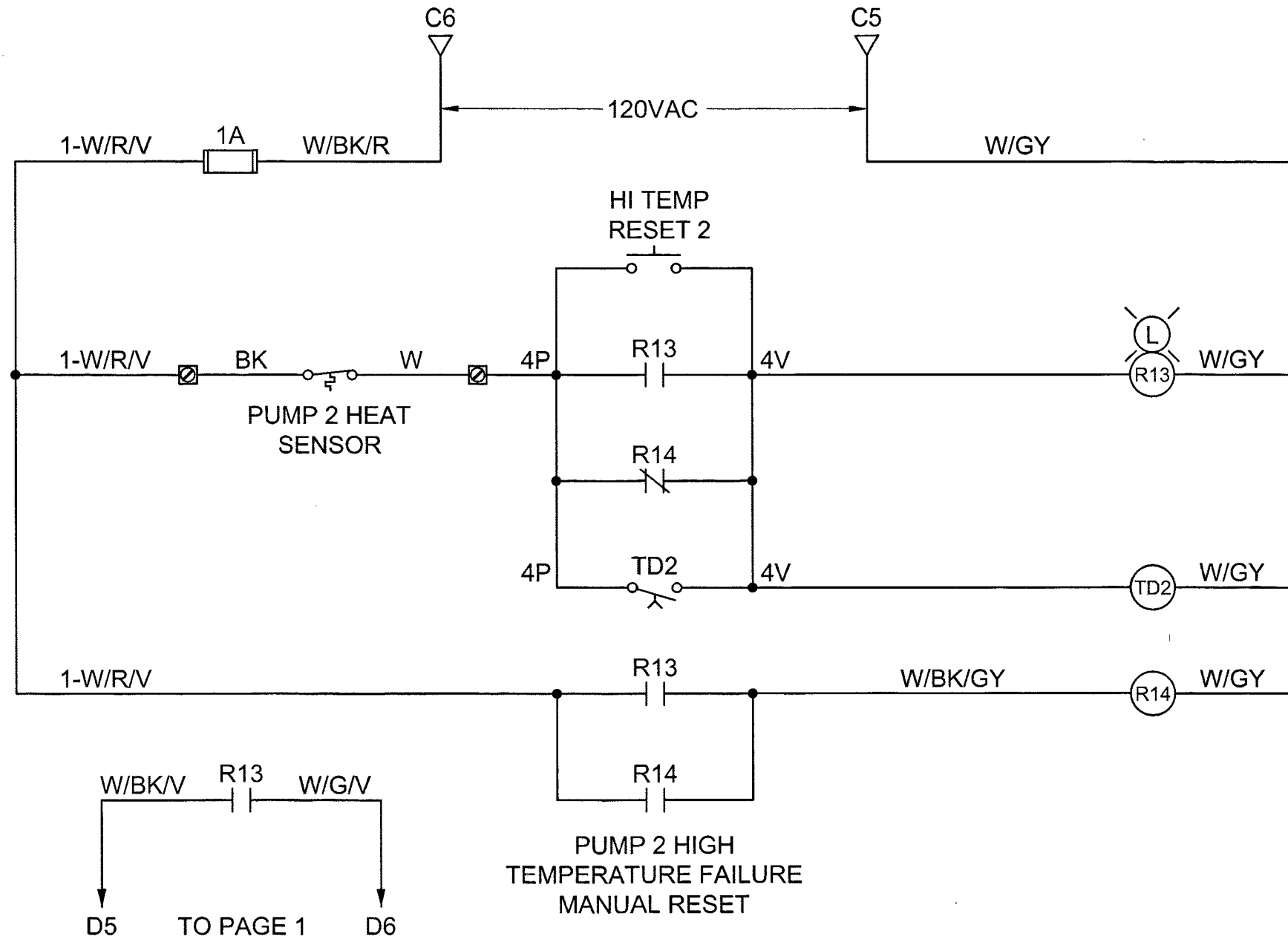
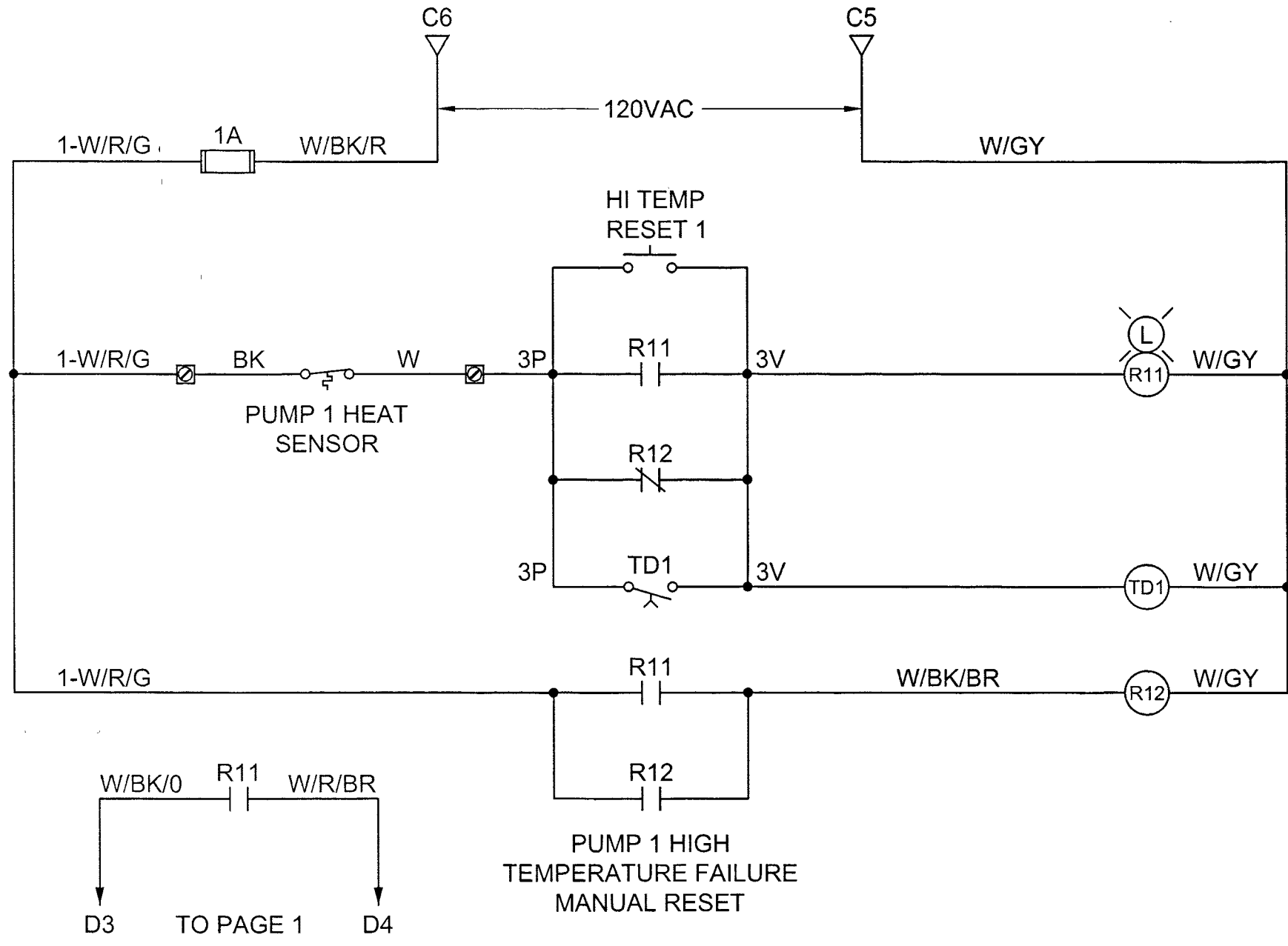
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Sheet
E-12
13 of 4
DRAWING NO
307V1096

DATE: 5/14/2014
DRAWN BY: CJR
CHECKED BY:

CONTROL PANEL SCHEMATICS 2 OF 3

REVISIONS	NO. DATE	DESCRIPTION	APP'D



GENERAL NOTES:

1. TD1 AND TD2 ARE PNEUMATIC NORMALLY OPEN .1 - 3 SECONDS OFF DELAYS.



8337 W. SUNSET ROAD #290
LAS VEGAS, NV 89113
PH. 702-938-4080 FAX 702-938-4082

Sheet E-13 14 of 4 DRAWING NO. 307V1096	REFERENCE DRAWING	TITLE: CITY CENTER PLACE GROUNDWATER DISCHARGE IMPROVEMENTS SHEET: CONTROL PANEL SCHEMATIC 3 OF 3	 DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN SECTION	DESIGNED BY: W. J. CUR CHECKED BY: DATE: 5/14/2014	NO. DATE: DESCRIPTION APP'D 	REVISIONS:
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