



State of Utah—Department of Administrative Services
 DIVISION OF FACILITIES CONSTRUCTION
 AND MANAGEMENT
 4110 State Office Building/Salt Lake City, Utah 84114/538-3018

**SALT LAKE
 COMMUNITY COLLEGE
 LHM EAST PARKING LOT EXPANSION
 SLCC PROJECT NO. F10058
 DFCM PROJECT 10203660**

**King
 Engineering,
 Inc.** 2825 E Cottonwood Parkway
 Salt Lake City, Utah 84121
 Phone: 801.990.3170
 Fax: 801.990.3293
 Internet: www.pavementmanagement.com

CREATED BY: KING ENGINEERING, INC.

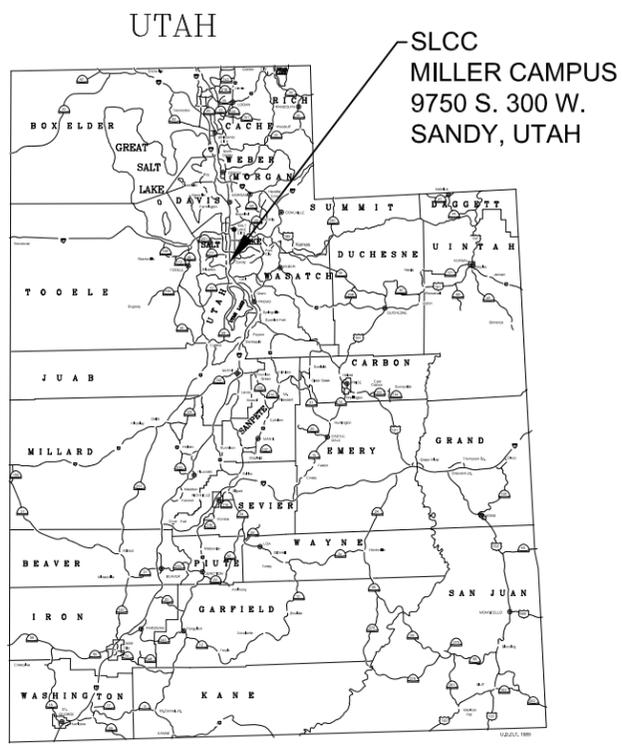


SITE/LOCATION:
 SALT LAKE
 COMMUNITY
 COLLEGE
 LARRY H MILLER
 CAMPUS

PROJECT TITLE:
 LHM EAST
 PARKING LOT
 EXPANSION

MARK	DATE	DESCRIPTION
		ISSUE TYPE: CONST. DOCUMENTS
		ISSUE DATE: AUG 9, 2010
		SLCC PROJECT NO: 10203660
		CAD PROJECT NO: 02-XXX
		CAD DWG FILE: KE1117NCSSHEET.DWG
		DRAWN BY: AD
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		SHEET TITLE

SHEET NUMBER
G-001
 SHEET 1 OF 15



VICINITY MAP



MILLER CAMPUS

SHEET NUMBERING

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SLCC MILLER CAMPUS



GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL COMPLY WITH THE PROJECT DRAWINGS AND PROJECT SPECIFICATIONS. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.
2. ANY KNOWN SEWER MAINS, WATER MAINS, GAS MAINS, STORM MAINS, IRRIGATION LINES, TELEPHONE CONDUITS ELECTRIC CABLES, ANOTHER UNDERGROUND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATION AS HE THINKS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL, AHEAD OF EXCAVATOR, LOCATE UNDERGROUND UTILITIES AND STRUCTURES SO THAT THEY WILL NOT BE ACCIDENTALLY CUT OR DAMAGED BY HIS CONSTRUCTION OPERATION, AND SO THAT THE GRADE OF THE PIPE CAN BE ADJUSTED AS REQUIRED. THE CONTRACTOR SHALL CONTACT BLUE STAKES AND SLCC A MINIMUM OF TWO FULL BUSINESS DAYS BEFORE DIGGING FOR THE LOCATION OF UTILITIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, TRAFFIC CONTROL AND SECURITY.
4. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (I.E. LIGHT POLES, TRASH CANS, MISC. FEATURES OUTSIDE OF THE WORK AREAS ETC.) DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL FOR MATERIALS REMOVAL AND DELIVERIES DURING THE CONSTRUCTION OF THE PROJECT.
7. ALL TRAFFIC CONTROL (I.E. SIGNAGE, CONES, BARRICADES) SHALL CONFORM TO THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND DFCM REQUIREMENTS FOR REMOVALS AND DELIVERIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND STAKING.
9. THE CONTRACTOR SHALL NOTIFY SLCC AND DFCM STAFF 48 HOURS PRIOR TO MOBILIZING TO PROJECT AND BEGINNING DEMOLITION AND REMOVALS.
10. THE CONTRACTOR SHALL PROVIDE AND ON-SITE TOILET FOR THE DURATION OF THE PROJECT.
11. THE CONTRACTOR SHALL BARRICADE AND SIGN ALL WORK AREAS DENYING ACCESS TO ALL BUT THE CONTRACTORS EMPLOYEES AND SUBCONTRACTORS.
12. THE CONTRACTOR SHALL PROTECT THE EXISTING SIDEWALK AND CURB AND GUTTER FROM DAMAGE AT ENTRANCES AND EXITS. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING CURB AND GUTTER, STORM DRAINS, ETC. DUE TO CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
13. CONTRACTOR SHALL CONTACT MR. BRENT LLOYD OF DFCM AT 801-550-5882, MR. JON HANSEN OF SLCC AT 801-706-5379 AND MR. SAM MARTINEZ OF SLCC AT 801-706-7785 48 HOURS IN ADVANCE OF MOBILIZING TO THE SITE TO COMMENCE WORK.



NW PARKING
SHEETS C-100, C-104 - C-106

SE PARKING
SHEETS C-100 - C-103

SHEET INDEX

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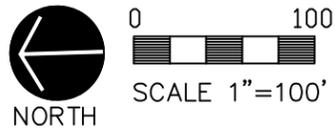
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PROJECT NOTES

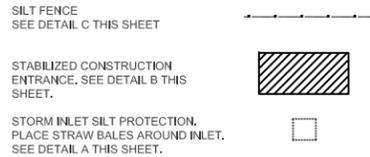
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G-002

SHEET 2 OF 15

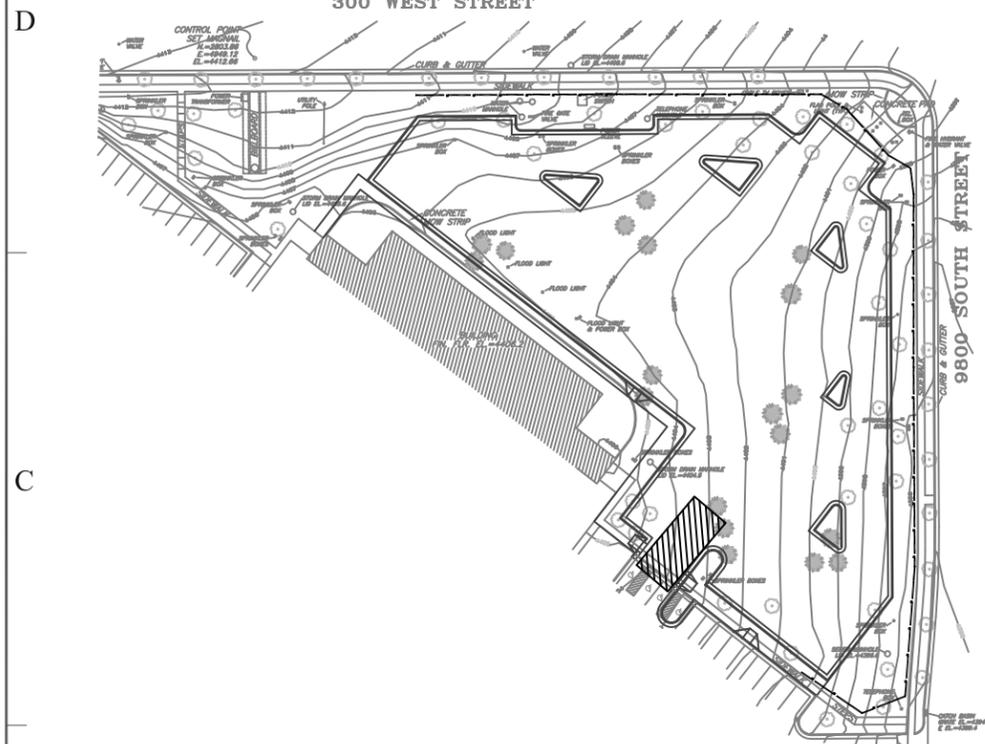


EROSION PLAN LEGEND

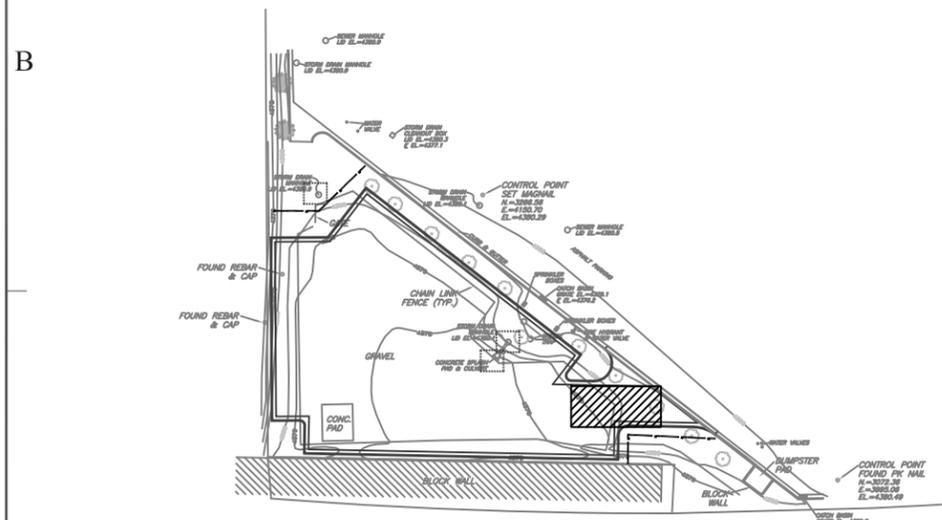


EROSION PLAN NOTES

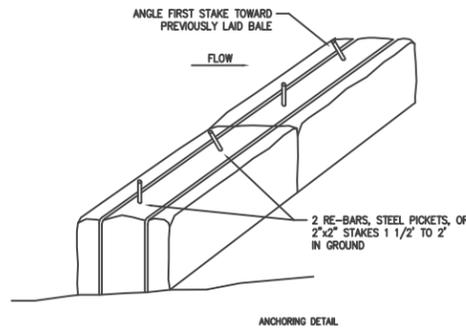
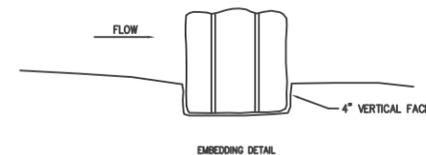
- CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT PRIOR TO START OF CONSTRUCTION.
- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORSEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE SANDY CITY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS FROM TRAFFIC FROM THE SITE.
- ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY UPON INDIVIDUAL INLETS BECOMING FUNCTIONAL.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
- EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION, EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
- CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
- BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS ABSOLUTELY PROHIBITED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
- ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS TO BE DONE IMMEDIATELY UPON DISCOVERY.
- ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE. DOWN-GRADE LINES MUST BE PROTECTED FROM WASH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS



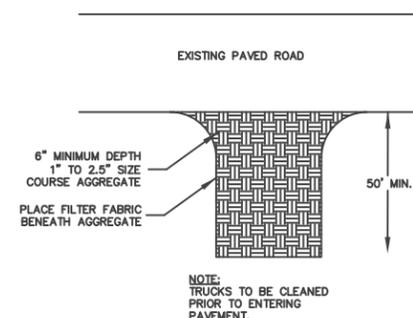
SOUTHEAST SITE



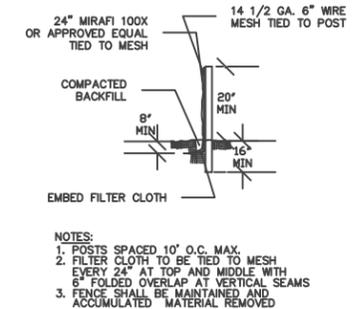
NORTHWEST SITE



- NOTES:
- Bales shall be placed in a row with ends tightly abutting adjacent bales.
 - Each bale shall be embedded in soil a min. of 4".
 - Bales shall be securely anchored in place by stakes or rebars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 - Inspection shall be frequent and repair or replacement shall be made promptly as needed.



STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



- NOTES:
- POSTS SPACED 10' O.C. MAX.
 - FILTER CLOTH TO BE TIED TO MESH EVERY 24" AT TOP AND MIDDLE WITH 6" FOLDED OVERLAP AT VERTICAL SEAMS
 - FENCE SHALL BE MAINTAINED AND ACCUMULATED MATERIAL REMOVED

SILT FENCE
SCALE: NTS

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EROSION CONTROL PLAN

SHEET NUMBER

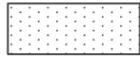
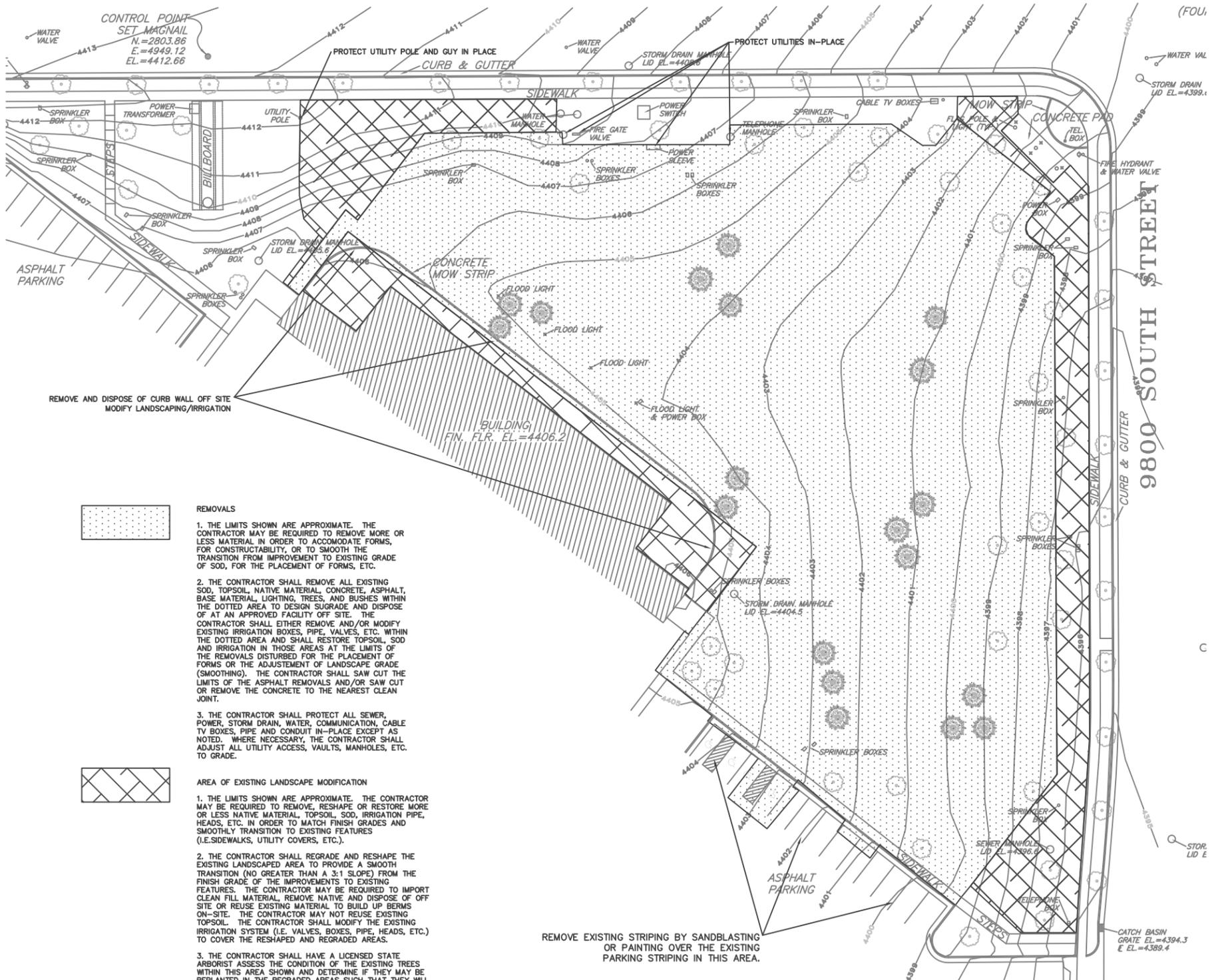
C-100

SHEET 3 OF 15



0 50
SCALE 1"=50'

300 WEST STREET



REMOVALS

1. THE LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR MAY BE REQUIRED TO REMOVE MORE OR LESS MATERIAL IN ORDER TO ACCOMMODATE FORMS, FOR CONSTRUCTABILITY, OR TO SMOOTH THE TRANSITION FROM IMPROVEMENT TO EXISTING GRADE OF SOD, FOR THE PLACEMENT OF FORMS, ETC.
2. THE CONTRACTOR SHALL REMOVE ALL EXISTING SOD, TOPSOIL, NATIVE MATERIAL, CONCRETE, ASPHALT, BASE MATERIAL, LIGHTING, TREES, AND BUSHES WITHIN THE DOTTED AREA TO DESIGN SURGRADE AND DISPOSE OF AT AN APPROVED FACILITY OFF SITE. THE CONTRACTOR SHALL EITHER REMOVE AND/OR MODIFY EXISTING IRRIGATION BOXES, PIPE, VALVES, ETC. WITHIN THE DOTTED AREA AND SHALL RESTORE TOPSOIL, SOD AND IRRIGATION IN THOSE AREAS AT THE LIMITS OF THE REMOVALS DISTURBED FOR THE PLACEMENT OF FORMS OR THE ADJUSTMENT OF LANDSCAPE GRADE (SMOOTHING). THE CONTRACTOR SHALL SAW CUT THE LIMITS OF THE ASPHALT REMOVALS AND/OR SAW CUT OR REMOVE THE CONCRETE TO THE NEAREST CLEAN JOINT.
3. THE CONTRACTOR SHALL PROTECT ALL SEWER, POWER, STORM DRAIN, WATER, COMMUNICATION, CABLE TV BOXES, PIPE AND CONDUIT IN-PLACE EXCEPT AS NOTED. WHERE NECESSARY, THE CONTRACTOR SHALL ADJUST ALL UTILITY ACCESS, VAULTS, MANHOLES, ETC. TO GRADE.



AREA OF EXISTING LANDSCAPE MODIFICATION

1. THE LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR MAY BE REQUIRED TO REMOVE, RESHAPE OR RESTORE MORE OR LESS NATIVE MATERIAL, TOPSOIL, SOD, IRRIGATION PIPE, HEADS, ETC. IN ORDER TO MATCH FINISH GRADES AND SMOOTHLY TRANSITION TO EXISTING FEATURES (I.E. SIDEWALKS, UTILITY COVERS, ETC.).
2. THE CONTRACTOR SHALL REGRADE AND RESHAPE THE EXISTING LANDSCAPED AREA TO PROVIDE A SMOOTH TRANSITION (NO GREATER THAN A 3:1 SLOPE) FROM THE FINISH GRADE OF THE IMPROVEMENTS TO EXISTING FEATURES. THE CONTRACTOR MAY BE REQUIRED TO IMPORT CLEAN FILL MATERIAL, REMOVE NATIVE AND DISPOSE OF OFF SITE OR REUSE EXISTING MATERIAL TO BUILD UP BERMS ON-SITE. THE CONTRACTOR MAY NOT REUSE EXISTING TOPSOIL. THE CONTRACTOR SHALL MODIFY THE EXISTING IRRIGATION SYSTEM (I.E. VALVES, BOXES, PIPE, HEADS, ETC.) TO COVER THE RESHAPED AND REGRADED AREAS.
3. THE CONTRACTOR SHALL HAVE A LICENSED STATE ARBORIST ASSESS THE CONDITION OF THE EXISTING TREES WITHIN THIS AREA SHOWN AND DETERMINE IF THEY MAY BE REPLANTED IN THE REGRADED AREAS SUCH THAT THEY WILL SURVIVE AND CONTINUE TO GROW. IF THE LICENSED ARBORIST DETERMINES THAT THE TREES MAY BE REPLANTED THE CONTRACTOR SHALL FOLLOW ALL OF THE ARBORISTS DIRECTIONS TO REMOVE, STORE, PROTECT AND REPLANT THE TREES. IF THE EXISTING TREES MAY NOT BE REUSED, THE CONTRACTOR SHALL DISPOSE OF THE TREES AND ROOTS OFF-SITE AND REPLACE WITH 4" CALIPER VARIETIES OF THE SAME SPECIES.

REMOVE EXISTING STRIPING BY SANDBLASTING OR PAINTING OVER THE EXISTING PARKING STRIPING IN THIS AREA.

REMOVE AND DISPOSE OF CURB WALL OFF SITE
MODIFY LANDSCAPING/IRRIGATION

D

C

B

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1

2

3

4

5

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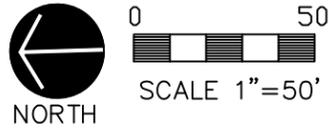
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SE PARKING REMOVALS

SHEET NUMBER

C-101

SHEET 3 OF 15



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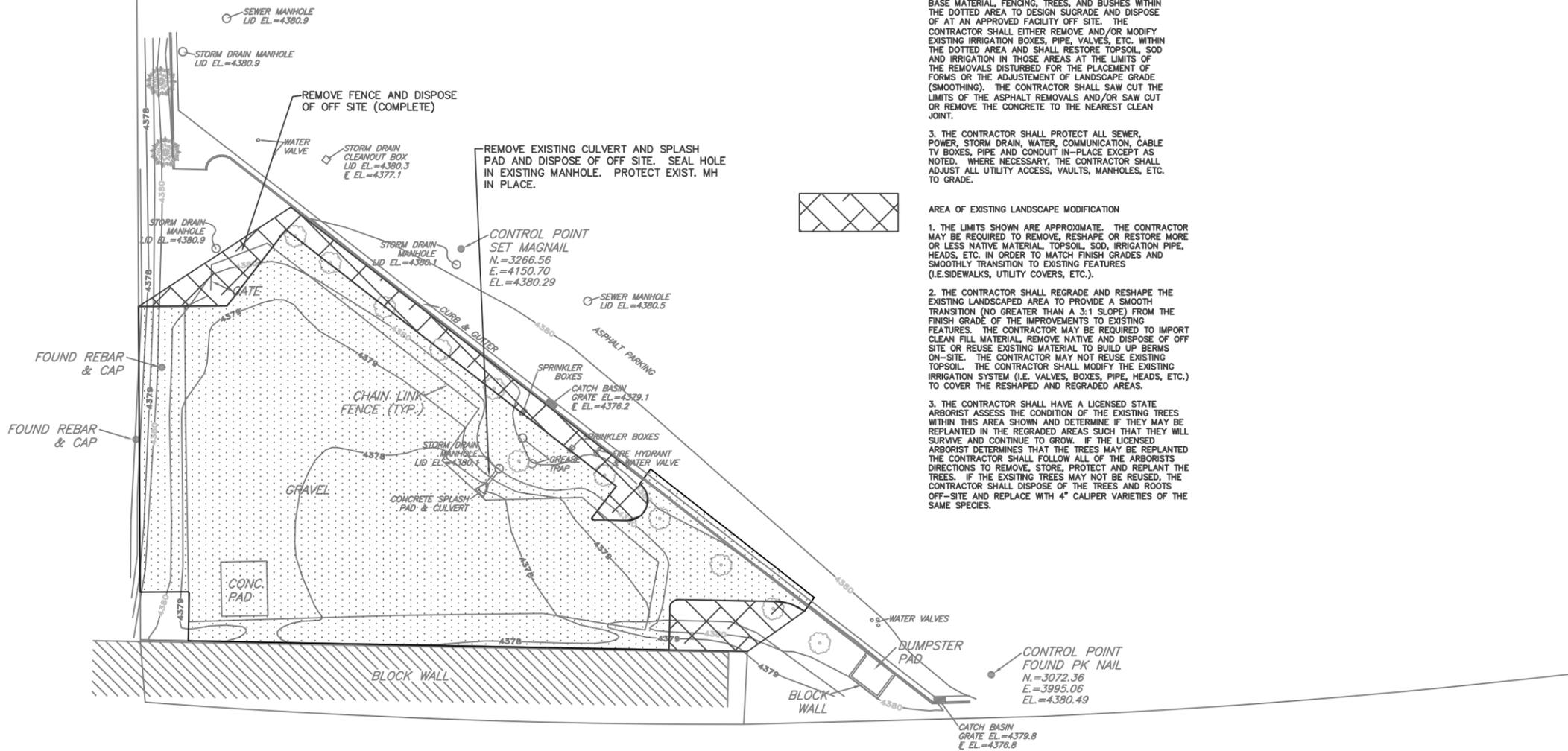
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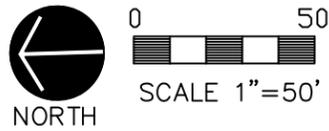
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NW PARKING REMOVALS

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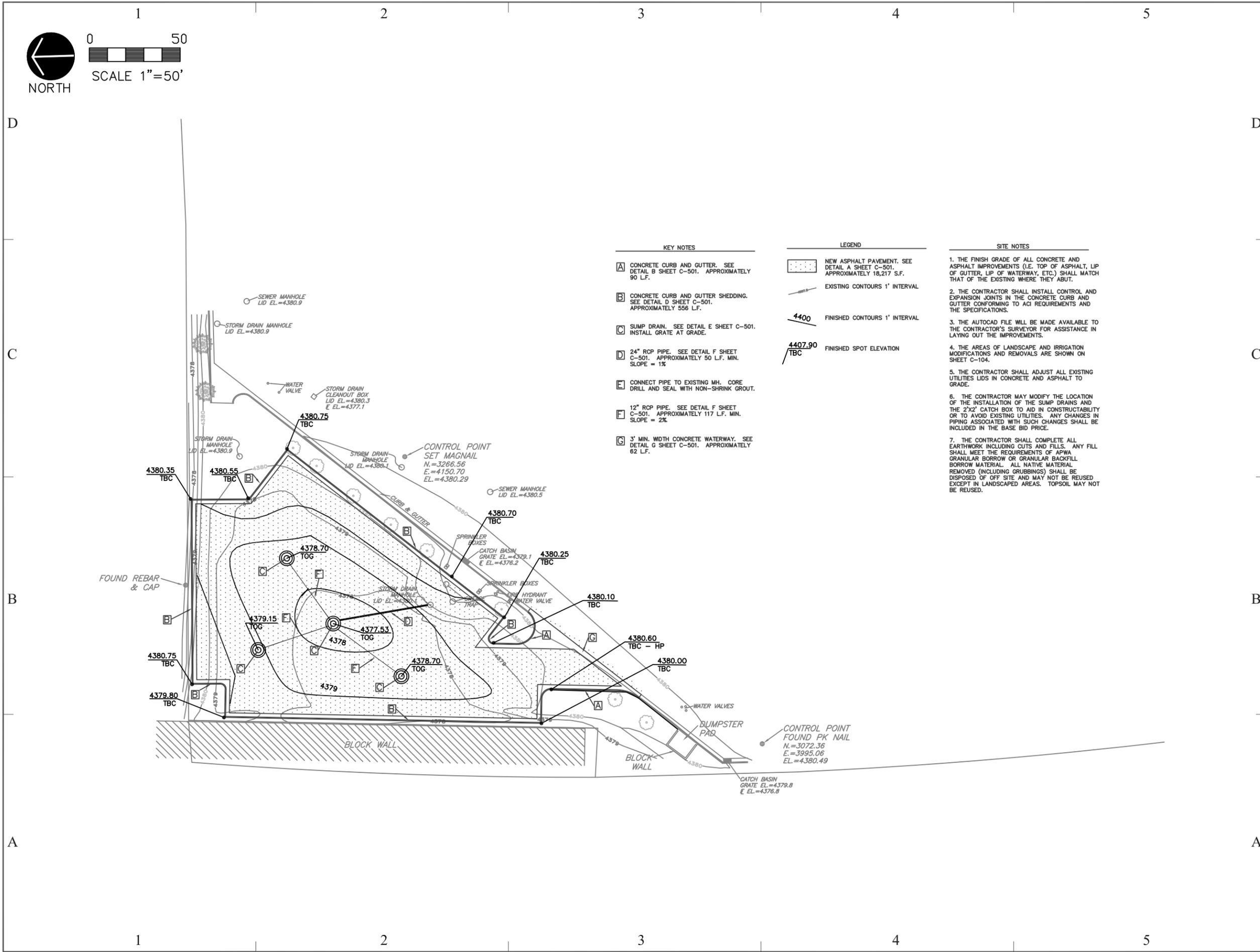
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NW PARKING LAYOUT & GRADING

SHEET NUMBER

C-105

SHEET 8 OF 15



- KEY NOTES**
- A CONCRETE CURB AND GUTTER. SEE DETAIL B SHEET C-501. APPROXIMATELY 90 L.F.
 - B CONCRETE CURB AND GUTTER SHEDDING. SEE DETAIL D SHEET C-501. APPROXIMATELY 556 L.F.
 - C SUMP DRAIN. SEE DETAIL E SHEET C-501. INSTALL GRATE AT GRADE.
 - D 24" RCP PIPE. SEE DETAIL F SHEET C-501. APPROXIMATELY 50 L.F. MIN. SLOPE = 1%
 - E CONNECT PIPE TO EXISTING MH. CORE DRILL AND SEAL WITH NON-SHRINK GROUT.
 - F 12" RCP PIPE. SEE DETAIL F SHEET C-501. APPROXIMATELY 117 L.F. MIN. SLOPE = 2%
 - G 3' MIN. WIDTH CONCRETE WATERWAY. SEE DETAIL G SHEET C-501. APPROXIMATELY 62 L.F.

- LEGEND**
- NEW ASPHALT PAVEMENT. SEE DETAIL A SHEET C-501. APPROXIMATELY 18,217 S.F.
 - EXISTING CONTOURS 1' INTERVAL
 - FINISHED CONTOURS 1' INTERVAL
 - FINISHED SPOT ELEVATION

- SITE NOTES**
1. THE FINISH GRADE OF ALL CONCRETE AND ASPHALT IMPROVEMENTS (I.E. TOP OF ASPHALT, LIP OF GUTTER, LIP OF WATERWAY, ETC.) SHALL MATCH THAT OF THE EXISTING WHERE THEY ABUT.
 2. THE CONTRACTOR SHALL INSTALL CONTROL AND EXPANSION JOINTS IN THE CONCRETE CURB AND GUTTER CONFORMING TO ACI REQUIREMENTS AND THE SPECIFICATIONS.
 3. THE AUTOCAD FILE WILL BE MADE AVAILABLE TO THE CONTRACTOR'S SURVEYOR FOR ASSISTANCE IN LAYING OUT THE IMPROVEMENTS.
 4. THE AREAS OF LANDSCAPE AND IRRIGATION MODIFICATIONS AND REMOVALS ARE SHOWN ON SHEET C-104.
 5. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES LIDS IN CONCRETE AND ASPHALT TO GRADE.
 6. THE CONTRACTOR MAY MODIFY THE LOCATION OF THE INSTALLATION OF THE SUMP DRAINS AND THE 2'x2' CATCH BOX TO AID IN CONSTRUCTABILITY OR TO AVOID EXISTING UTILITIES. ANY CHANGES IN PIPING ASSOCIATED WITH SUCH CHANGES SHALL BE INCLUDED IN THE BASE BID PRICE.
 7. THE CONTRACTOR SHALL COMPLETE ALL EARTHWORK INCLUDING CUTS AND FILLS. ANY FILL SHALL MEET THE REQUIREMENTS OF APWA GRANULAR BORROW OR GRANULAR BACKFILL BORROW MATERIAL. ALL NATIVE MATERIAL REMOVED (INCLUDING GRUBBINGS) SHALL BE DISPOSED OF OFF SITE AND MAY NOT BE REUSED EXCEPT IN LANDSCAPED AREAS. TOPSOIL MAY NOT BE REUSED.



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PROJECT TITLE:

LHM EAST PARKING LOT EXPANSION

MARK	DATE	DESCRIPTION

ISSUE DATE: AUG 9, 2010

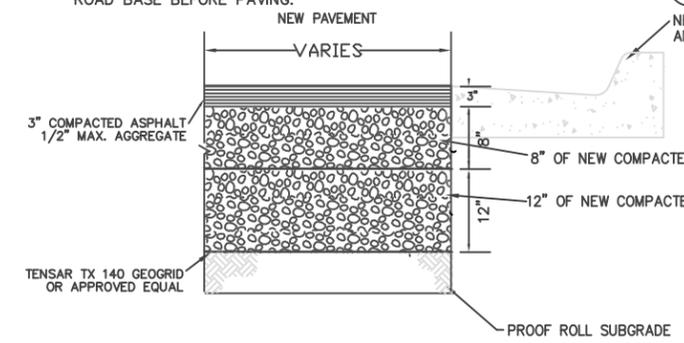
SLCC PROJECT NO: 10203660
CAD PROJECT NO: 02-XXX
CAD DWG FILE: C-501.DWG
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SHEET TITLE
CIVIL DETAILS

SHEET NUMBER

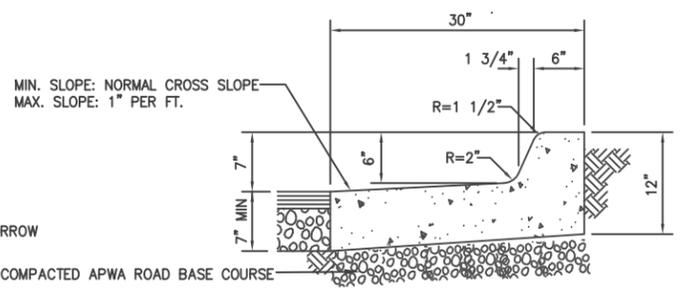
C-501

PAVEMENT NOTES:
1. SOIL STERILENT SHALL BE PLACED ON THE PREPARED ROAD BASE BEFORE PAVING.



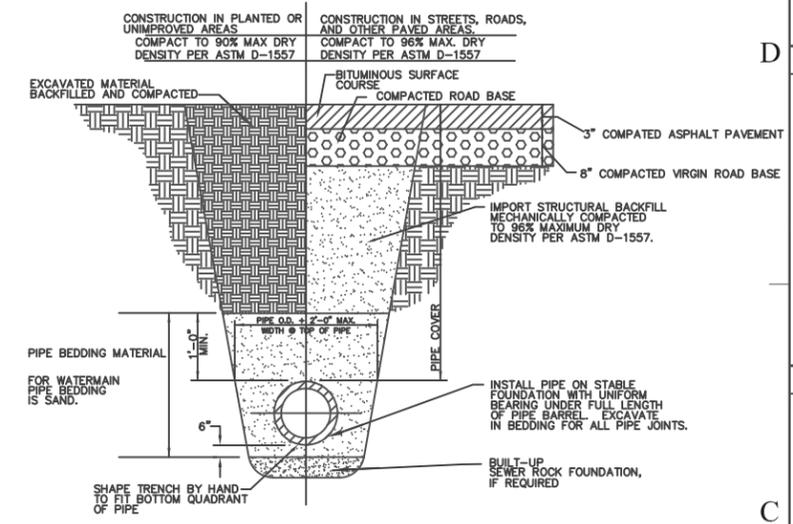
ASPHALT PAVEMENT

SCALE: NTS



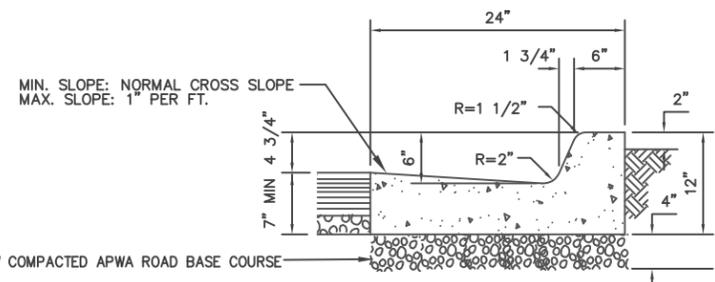
SHEDDING CURB AND GUTTER

SCALE: NTS



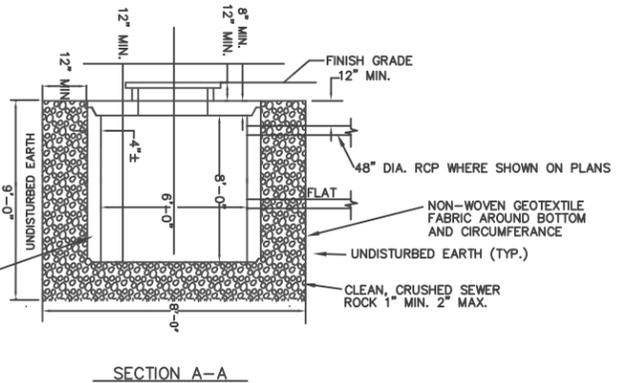
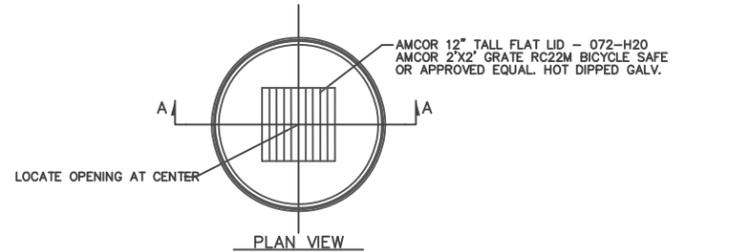
TYPICAL TRENCH

SCALE: NTS



CURB AND GUTTER

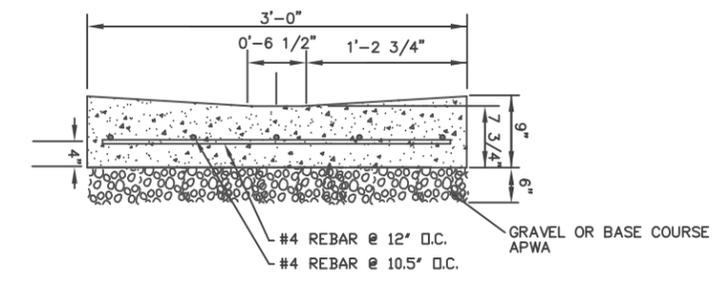
SCALE: NTS



NOTES:
1- LIDS MUST MEET AASHTO HS-20 LOADING
2- SECTIONS MUST MEET ASTM C478

SUMP DRAIN

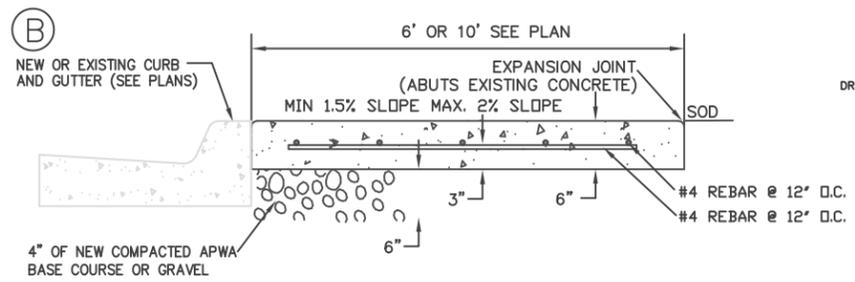
SCALE: NTS



WATERWAY

SCALE: NTS

CONCRETE NOTES:
CONCRETE SHALL HAVE AN MINIMUM 28 DAY UNCONFINED COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH AND CONTAIN 6 PERCENT +/- 1PERCENT
ALL SAW CUTS MUST BE COMPLETED WITHIN 24 HOURS OF THE "INITIAL SET" OF THE CONCRETE.



SIDEWALK

SCALE: NTS



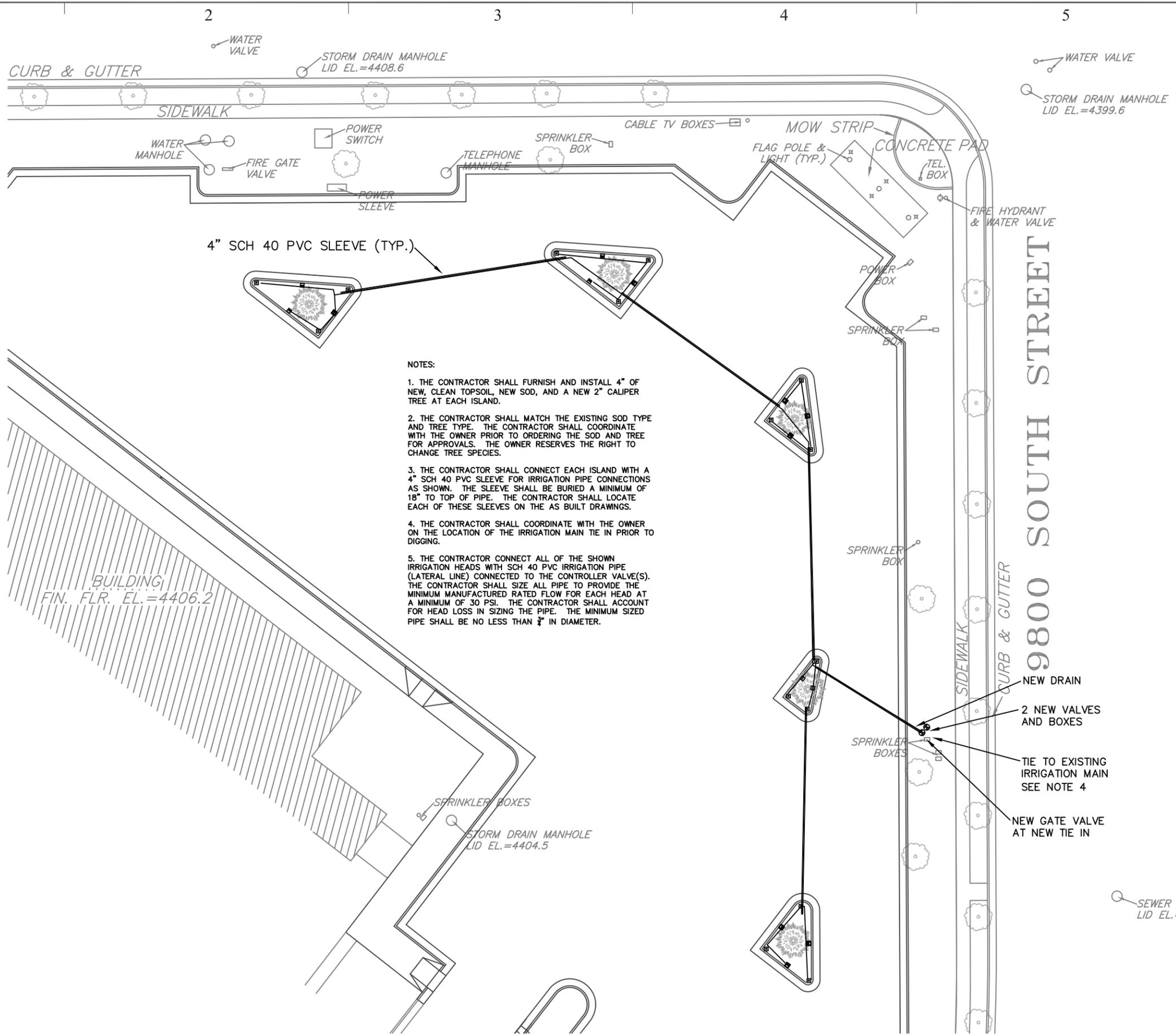
0 30
SCALE 1"=30'

D

C

B

A



- NOTES:
1. THE CONTRACTOR SHALL FURNISH AND INSTALL 4" OF NEW, CLEAN TOPSOIL, NEW SOD, AND A NEW 2" CALIPER TREE AT EACH ISLAND.
 2. THE CONTRACTOR SHALL MATCH THE EXISTING SOD TYPE AND TREE TYPE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO ORDERING THE SOD AND TREE FOR APPROVALS. THE OWNER RESERVES THE RIGHT TO CHANGE TREE SPECIES.
 3. THE CONTRACTOR SHALL CONNECT EACH ISLAND WITH A 4" SCH 40 PVC SLEEVE FOR IRRIGATION PIPE CONNECTIONS AS SHOWN. THE SLEEVE SHALL BE BURIED A MINIMUM OF 18" TO TOP OF PIPE. THE CONTRACTOR SHALL LOCATE EACH OF THESE SLEEVES ON THE AS BUILT DRAWINGS.
 4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON THE LOCATION OF THE IRRIGATION MAIN TIE IN PRIOR TO DIGGING.
 5. THE CONTRACTOR CONNECT ALL OF THE SHOWN IRRIGATION HEADS WITH SCH 40 PVC IRRIGATION PIPE (LATERAL LINE) CONNECTED TO THE CONTROLLER VALVE(S). THE CONTRACTOR SHALL SIZE ALL PIPE TO PROVIDE THE MINIMUM MANUFACTURED RATED FLOW FOR EACH HEAD AT A MINIMUM OF 30 PSI. THE CONTRACTOR SHALL ACCOUNT FOR HEAD LOSS IN SIZING THE PIPE. THE MINIMUM SIZED PIPE SHALL BE NO LESS THAN 3/4" IN DIAMETER.

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CREATED BY: KING ENGINEERING, INC.



SITE/LOCATION:
SALT LAKE COMMUNITY COLLEGE
LARRY H MILLER CAMPUS

PROJECT TITLE:
LHM EAST PARKING LOT EXPANSION

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: AUG 9, 2010

SLCC PROJECT NO: 10203660
CAD PROJECT NO: 02-XXX
CAD DWG FILE: L-101.DWG
DRAWN BY: AD
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SHEET TITLE
SE LANDSCAPING AND IRRIGATION

SHEET NUMBER

L-101

SHEET 11 OF 15

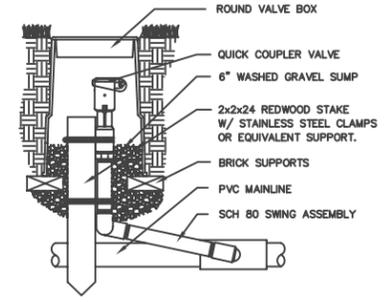
IRRIGATION NOTES

- THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE TIE IN FOR THE IRRIGATION FOR THE ISLANDS WITH SAM MARTINEZ OF SLCC. THE CONTRACTOR SHALL MODIFY THE EXISTING SOD AND IRRIGATION SYSTEMS AFFECTED BY CONSTRUCTION AS REQUIRED ON THE REMOVAL SHEET C-101.
- THE CONTRACTOR SHALL CONNECT ALL NEW VALVES TO THE EXISTING CONTROLLER AND CLOCK. SEE SAM MARTINEZ FOR THE LOCATION OF THE EXISTING CONTROLLER AND CLOCK. THE CONTRACTOR SHALL CONNECT ALL NEW VALVES TO THE COLLEGE MAXI COM SYSTEM.
- ANY QUESTIONS REGARDING THE LOCATIONS, TYPES AND CONDITIONS OF THE EXISTING WATER LINE TIE-INS, CONTROLLER, ETC. MAY BE DIRECTED TO SAM MARTINEZ OF SLCC AT 706-7785.
- THE CONTRACTOR SHALL NOTIFY SAM MARTINEZ AND JON HANSEN OF SLCC 48 HOURS IN ADVANCE OF DIGGING TO TIE INTO THE EXISTING WATER MAIN AND TIE INTO THE EXISTING CONTROLLER.
- SHEET L-101 IS DIAGRAMMATIC ONLY AND IS INTENDED TO CONVEY THE IDEA OF FULL COVERAGE OF THE IRRIGATION SPRINKLER SYSTEM AT THE NEW LANDSCAPED ISLANDS. EXISTING SOD AND IRRIGATION SHALL BE MODIFIED AS PART OF THE REMOVALS REQUIREMENTS ON SHEET C-101. PRINTS SHALL NOT BE SCALED. THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION LAYOUT OF THE SYSTEM IN ACCORDANCE WITH THE DRAWINGS TO PROPORTIONALLY COVER A GIVEN AREA AS SHOWN. THE LAYOUT MAY BE MODIFIED IF NECESSARY TO OBTAIN COVERAGE TO SUITE THE MANUFACTURERS STANDARD HEADS INDICATED. DO NOT DECREASE THE NUMBER OF HEADS INDICATED UNLESS THIS IS ACCEPTABLE TO THE AGENCY OR ENGINEER. THE SYSTEM SHALL BE TESTED FOR COMPLETE COVERAGE AND ALL NECESSARY PROPER ADJUSTMENTS MADE TO GET FULL AND PROPER COVERAGE PRIOR TO ACCEPTANCE BY THE OWNER.
- THE SYSTEM IS DESIGN FOR 55 PSI OPERATING PRESSURE ON ALL ROTORS AND 30 PSI OPERATING PRESSURE ON ALL SPRAY HEADS UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY PRESSURE AND USE PRESSURE REDUCERS IF NEEDED.
- ALL MAIN LINE PIPE SHALL BE SCH 40 PVC PIPE ALL MAINLINE FITTINGS SHALL BE SCH 80 ASTM 2468 FITTINGS ALL LATERAL LINE PIPE SHALL BE NEW SCH 40 PVC PIPE. FITTINGS ON ALL LATERAL LINES SHALL BE 40 ASTM 2468 FITTINGS UNLESS OTHERWISE SHOWN IN DETAILS.
- LIVE SERVICE MAINS SHALL BE INSTALLED A MINIMUM OF 18" BELOW FINISH GRADE. BACKFILL TRENCH AROUND LIVE SERVICE MAIN WITH A MINIMUM OF 8" OF ROCK FREE SOIL. LATERAL LINES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISHED GRADE.
- ALL LINES SHALL SLOPE TO DRAIN. AS FIELD CONDITIONS NECESSITATE, ADD ADDITIONAL DRAINS. THESE DRAINS SHALL BE INSTALLED FOR COMPLETE DRAINAGE OF THE ENTIRE SYSTEM PROVIDE A 12" DIA. X 12" DEEP GRAVEL SUMP UNDER EACH DRAIN WHICH DRAIN SHALL BE A MIN. OF 6" BELOW GRADE. ALL MANUAL DRAIN VALVES SHALL BE ENCLOSED IN A 2" PVC PIPE WITH A RUBBER CAP EXTENDING TO 1" ABOVE FINISHED GRADE.
- ALL VALVES WILL BE LOCATED IN GROUPS AND MAY BE CHANGED AT THE DIRECTION OF THE COLLEGE. A DRAIN VALVE WITH SUMP AND QUICK COUPLER SHALL BE PROVIDED AND INSTALLED AT EACH GROUP OF VALVES. VALVES SHALL BE LOCATED 3' FROM ANY CURB.
- ALL VALVES TO BE WIRED TO CONTROLLERS USING #14 U.F. WIRE AND PEN-TITE WATER RESISTANT WIRE CONNECTORS. ALL VALVE WIRES UNDER PAVING SHALL BE INSTALLED IN 2" SCH 40 PVC CONDUIT BURIED 24" DEEP. PROVIDE AND INSTALL A DIFFERENT COLOR VALVE WIRE FOR EACH CONTROLLER. RUN ONE EXTRA WIRE FROM THE ADJACENT CONTROLLER TO EACH GROUP OF VALVES FOR FUTURE USE AND STUB INTO THE VALVE BOX.
- ALL VALVE BOXES SHALL BE JUMBO SIZED PLASTIC BOXES, CARSON BROOKS OR EQUAL.
- QUANTITIES ARE PROVIDED FOR ESTIMATION PURPOSES ONLY. PROJECT ENGINEER IS NOT RESPONSIBLE FOR QUANTITIES CONTRACTOR SHALL VERIFY ALL QUANTITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SITE ITEMS DAMAGED INSURING THE SOURCES OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WIRE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. THE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES OR LIGHT POLES.
- WHERE CONSTRUCTION ACTIVITIES HAVE DISTURBED THE SITE INSIDE OR OUTSIDE OF THE CONTRACT LIMIT LINE, ALL AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. REPAIRED AREAS SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH TRANSITION IN GRADING AND MATERIALS FROM EXISTING TO NEW CONSTRUCTION.

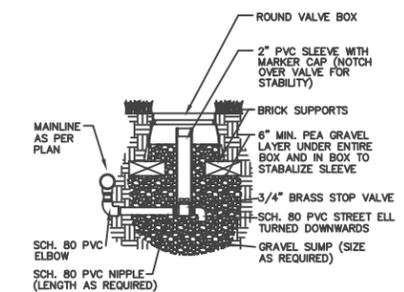
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
Q T H TT F	Rain Bird 1806 10' radius Turf Spray 6" popup	30
Q T H TT F	Rain Bird 1806 12' radius Turf Spray 6" popup	30
Q T H TT F	Rain Bird 1806 15' radius Turf Spray 6" popup	30
4 6 8 10 12 15 17	Rain Bird 1806 adjustable arc Turf Spray 6" popup	30

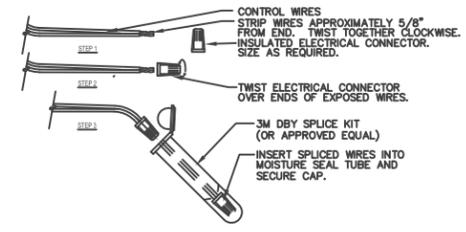
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
+	Rain Bird PEB-PRS-D Electric Remote Control Valve with Pressure Regulator
—	Irrigation Lateral Line: PVC Schedule 40 Lateral transition pipe size 1/2" min. Contractor shall size pipe to maintain manufacturer specified flow and constant 30 psi pressure at all heads



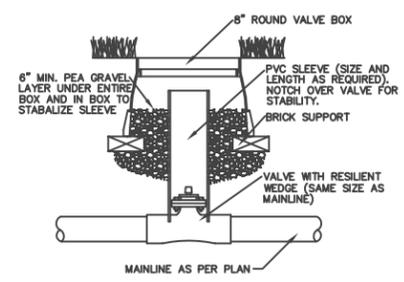
QUICK COUPLER SCALE: NTS



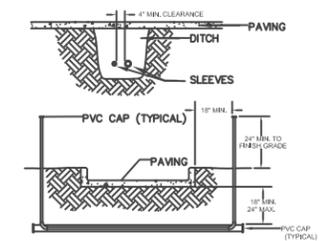
MAINLINE DRAIN SCALE: NTS



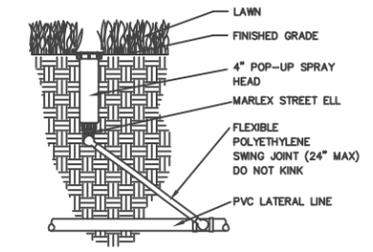
WIRE SPLICING AND VALVE BOX SCALE: NTS



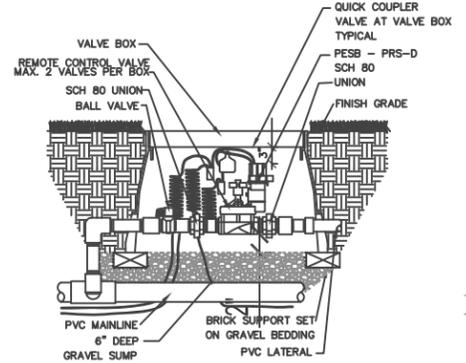
GATE VALVE SCALE: NTS



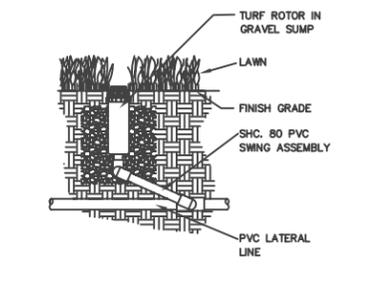
SLEEVING DETAIL SCALE: NTS



6" POPUP SPRAYHEAD SCALE: NTS



VALVE ASSEMBLY SCALE: NTS



ROTOR DETAIL SCALE: NTS

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SALT LAKE COMMUNITY COLLEGE LARRY H MILLER CAMPUS

PROJECT TITLE:
LHM EAST PARKING LOT EXPANSION

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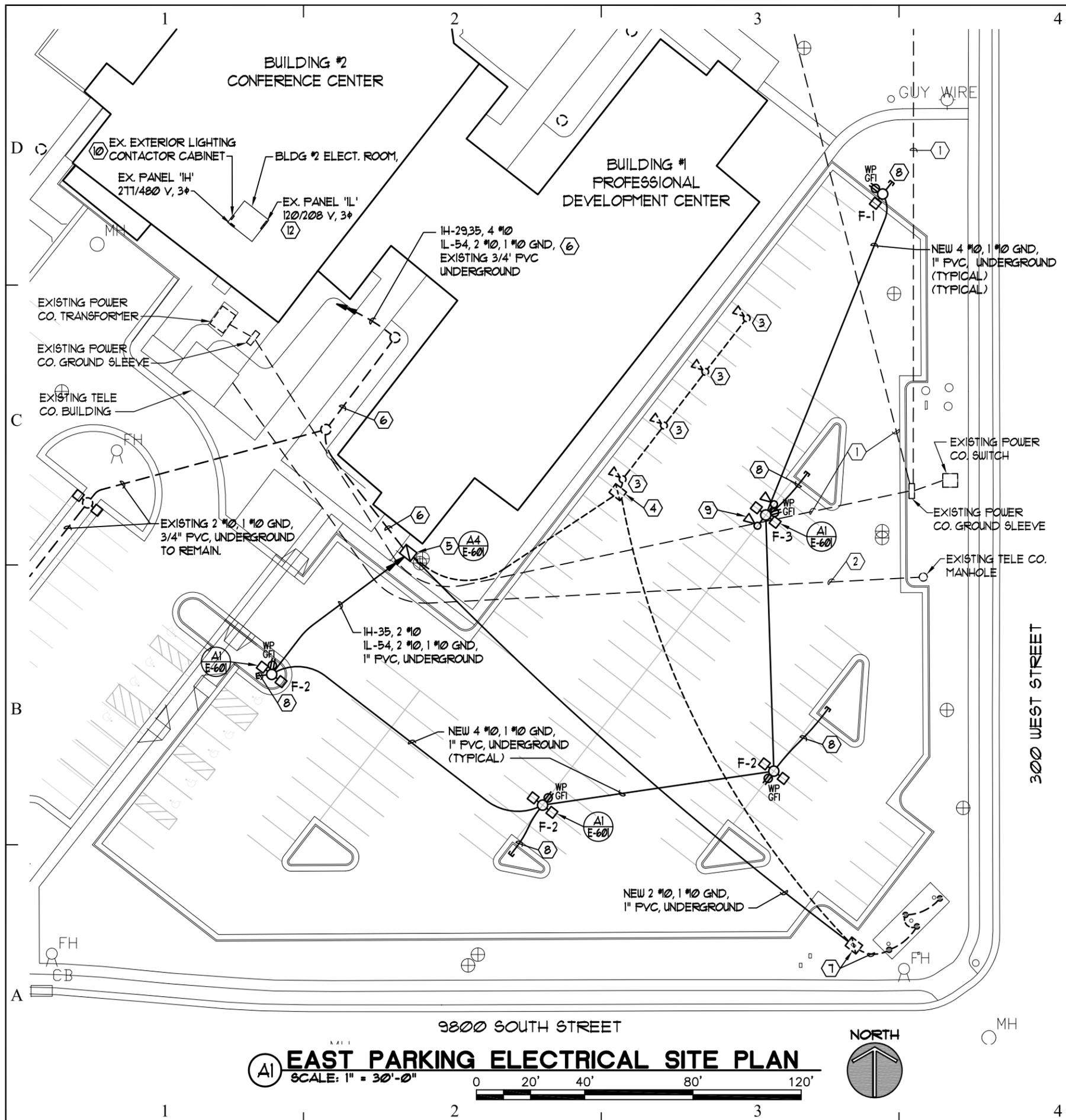
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IRRIGATION NOTES AND DETAILS

SHEET NUMBER

L-501

SHEET 12 OF 15



GENERAL NOTES:

- BURY ALL UNDERGROUND CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
- USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
- COORDINATE ELECTRICAL SITE WORK WITH GENERAL SITE PLAN, GENERAL CONTRACTOR, AND LANDSCAPING CONTRACTOR. INSTALL UNDERGROUND CONDUITS SUCH THAT CONDUITS WILL NOT BE DAMAGED BY SUBSEQUENT INSTALLATION OF TREES AND SHRUBBERY, OR OTHER UNDERGROUND UTILITIES.
- LOCATIONS OF EXISTING LIGHT POLES, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.

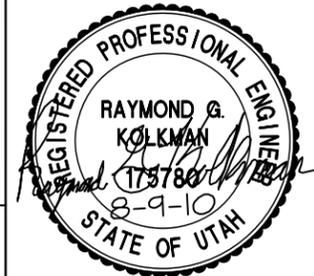
KEYED NOTES:

- EXISTING UNDERGROUND 12,470 VOLT PRIMARY ELECTRICAL SERVICE CONDUIT TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO BEGINNING WORK. COORDINATE WITH GENERAL CONTRACTOR.
- EXISTING UNDERGROUND TELEPHONE SERVICE CONDUIT TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO BEGINNING WORK. COORDINATE WITH GENERAL CONTRACTOR.
- REMOVE EXISTING GROUND MOUNTED FLOODLIGHTS COMPLETE INCLUDING CONCRETE BASE, WIRING, AND CONDUIT.
- REMOVE EXISTING UNDERGROUND JUNCTION BOX INCLUDING ALL ABANDONED CONDUIT, WIRING, ETC.
- INTERCEPT EXISTING UNDERGROUND CONDUIT AND PROVIDE NEW UNDERGROUND JUNCTION BOX.
- REPLACE EXISTING WIRING IN EXISTING UNDERGROUND CONDUIT WITH NEW WIRING AS INDICATED TO INCLUDE EXISTING 277 VOLT LIGHTING CIRCUIT, NEW 277 VOLT LIGHTING CIRCUIT, AND NEW 120 VOLT RECEPTACLE CIRCUIT.
- EXISTING UNDERGROUND JUNCTION BOX AND CONNECTION TO FLAGPOLE FLOODLIGHTS TO REMAIN. RECONNECT EXISTING CIRCUIT INTERRUPTED BY DEMOLITION AS INDICATED.
- 1" SPARE CONDUIT STUB TO PLANTING AREA FROM EACH NEW POLE BASE.
- AIM FLOODLIGHTS TO ILLUMINATE "SALT LAKE COMMUNITY COLLEGE" SIGN ON BUILDING #1 FACADE. ADJUST BARN DOORS TO MINIMIZE LIGHT SPILL INTO BUILDING WINDOWS AND ONTO ADJACENT STREETS.
- CONNECT NEW CIRCUIT IH-35 THROUGH SPARE CONTACT ON EXISTING CONTACTOR TO SPARE IP-20A BREAKER IN EXISTING PANEL 'IH' USING EXISTING CONDUIT. PROVIDE NEW GROUND BUS IN EXISTING CONTACTOR CABINET SUITABLE FOR CONNECTION OF ALL NEW AND EXISTING GROUND CONDUCTORS. RELOCATE GROUND CONDUCTORS FROM ENCLOSURE MOUNTING SCREWS TO NEW GROUND BUS.
- PROVIDE NEW CONDUIT AND WIRING FROM EXISTING EXTERIOR LIGHTING CONTACTOR CABINET TO EXISTING PANEL 'IL' FOR NEW 120 VOLT RECEPTACLE CIRCUIT IL-44.

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CREATED BY: KING ENGINEERING, INC.



SITE/LOCATION:

SALT LAKE COMMUNITY COLLEGE LARRY H MILLER CAMPUS

PROJECT TITLE:

LHM EAST PARKING LOT EXPANSION

MARK	DATE	DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS		

ISSUE DATE: AUG 9, 2010

SLCC PROJECT NO: 10203660
CAD PROJECT NO:
CAD DWG FILE: 32-ES101.dwg
DRAWN BY: W.B.G.
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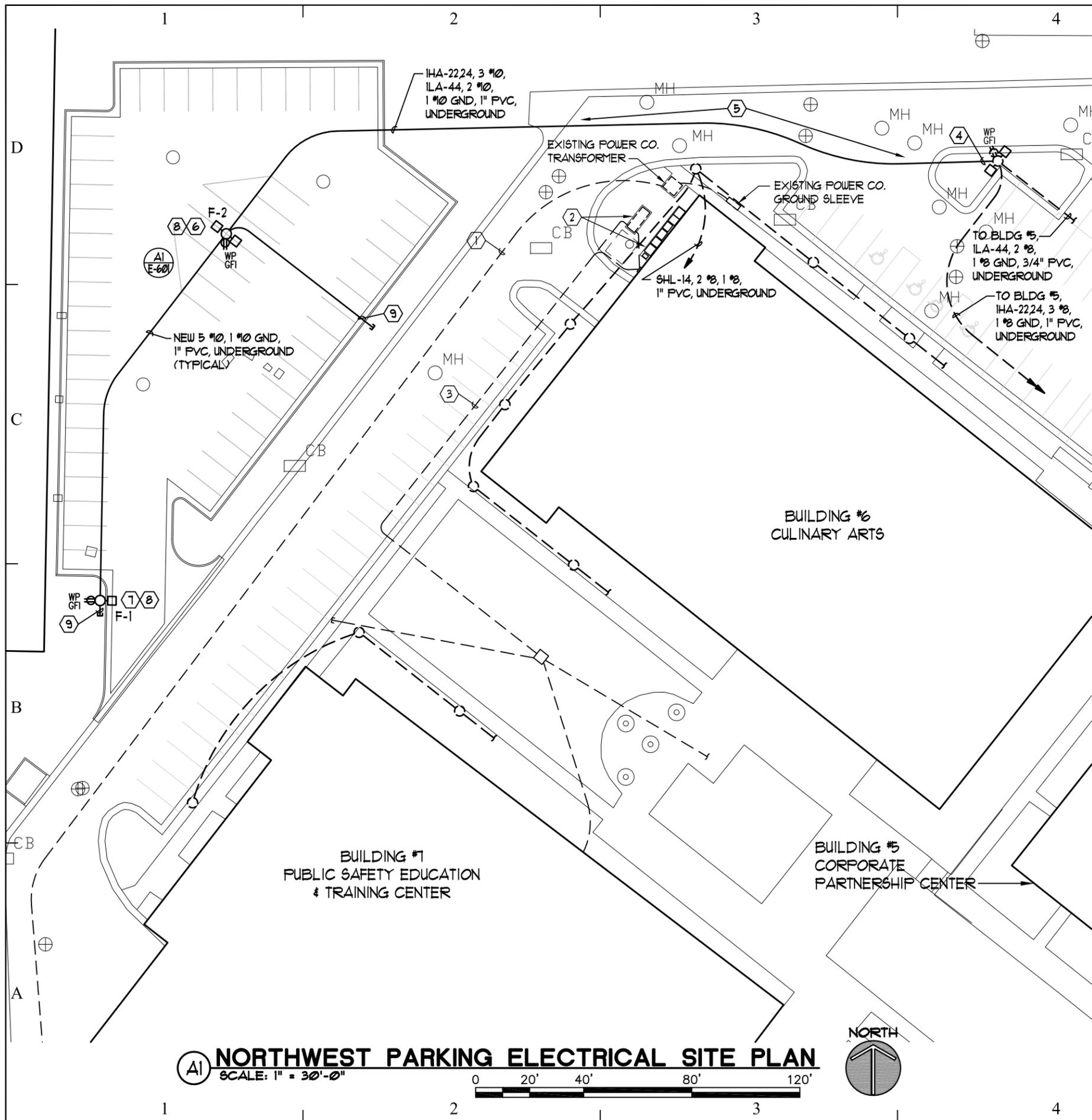
SHEET TITLE

EAST PARKING ELECTRICAL SITE PLAN

SHEET NUMBER

ES101

SHEET 13 OF 15



GENERAL NOTES:

1. BURY ALL UNDERGROUND CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
2. USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
3. COORDINATE ELECTRICAL SITE WORK WITH GENERAL SITE PLAN, GENERAL CONTRACTOR, AND LANDSCAPING CONTRACTOR. INSTALL UNDERGROUND CONDUITS SUCH THAT CONDUITS WILL NOT BE DAMAGED BY SUBSEQUENT INSTALLATION OF TREES AND SHRUBBERY, OR OTHER UNDERGROUND UTILITIES.
4. LOCATIONS OF EXISTING LIGHT POLES, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.

KEYED NOTES:

- ① EXISTING UNDERGROUND 12,470 VOLT PRIMARY ELECTRICAL SERVICE CONDUIT TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO BEGINNING WORK. COORDINATE WITH GENERAL CONTRACTOR.
- ② EXISTING EMERGENCY GENERATOR AND ELECTRICAL SWITCHGEAR TO REMAIN.
- ③ EXISTING UNDERGROUND EMERGENCY GENERATOR CONDUITS TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO BEGINNING WORK. COORDINATE WITH GENERAL CONTRACTOR.
- ④ CONNECT NEW CONDUIT TO EXISTING SPARE CONDUIT STUB FROM EXISTING LIGHT POLE AND CONNECT TO EXISTING CIRCUITS AS INDICATED.
- ⑤ SAWCUT, REMOVE, AND REPAIR EXISTING ASPHALT PAVING TO INSTALL NEW UNDERGROUND CONDUIT.
- ⑥ CONNECT ONE LIGHT HEAD TO CIRCUIT IHA-22 (PHOTOCELL ON - TIME SWITCH OFF). CONNECT SECOND LIGHT HEAD TO CIRCUIT IHA-24 (PHOTOCELL ON - PHOTOCELL OFF).
- ⑦ CONNECT SINGLE LIGHT HEAD TO CIRCUIT IHA-24 (PHOTOCELL ON - PHOTOCELL OFF).
- ⑧ CONNECT RECEPTACLES TO 120 VOLT CIRCUIT 1LA-44.
- ⑨ 1" SPARE CONDUIT STUB TO PLANTING AREA FROM EACH NEW POLE BASE.

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SITE/LOCATION:

SALT LAKE COMMUNITY COLLEGE LARRY H MILLER CAMPUS

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CAD PROJECT NO:

CAD DWG FILE: 32-ES101.dwg

DRAWN BY: W.B.G.

CHK'D BY: R.G.K.

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SHEET TITLE

NORTHWEST PARKING ELECTRICAL SITE PLAN

SHEET NUMBER

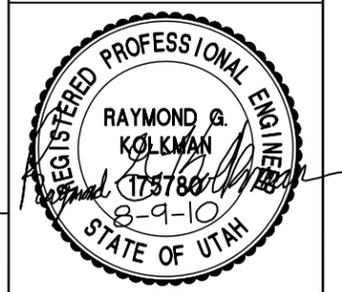
ES102

SHEET 14 OF 15

FIXTURE SCHEDULE				
SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP
F-1	GARDCO	G18-1-3XL-250PSMH-277-NP/ SSS30-4-7-D1-NP-AHH	POLE MOUNTED PULSE START METAL HALIDE FIXTURE WITH TYPE III LIGHT DISTRIBUTION AND NATURAL ALUMINUM POWDER COATED PAINT FINISH MOUNTED 30 FOOT, 4' SQUARE 7 GAUGE STRAIGHT SQUARE STEEL POLE WITH ANCHOR BOLT COVER, PAINTED TO MATCH FIXTURE, AND ADDITIONAL HANDHOLE FOR GFCI RECEPTACLE AND COVER BY CONTRACTOR.	250 PSMH ED28
F-2	GARDCO	G18-2-3XL-250PSMH-277-NP/ SSS30-4-7-D2-NP-AHH	SAME AS F-1 EXCEPT TWO LIGHT HEADS MOUNTED 180° APART.	(2) 250 PSMH ED28
F-3	GARDCO	G18-2-3XL-250PSMH-277-NP/ (2) DF7-X-HSP-175MH-277-NP-BD/ SSS30-5-7-D2-NP-AHH	SAME AS F-2 EXCEPT WITH 5' SQUARE 7 GAUGE STRAIGHT STEEL POLE AND TWO 175 WATT PULSE START METAL HALIDE FLOODLIGHTS WITH HORIZONTAL SPOT LIGHT DISTRIBUTION, AND BARN DOORS, MOUNTED ON BULLHORN BRACKETS AT 12 FEET ABOVE POLE BASE.	(2) 250 PSMH ED28 (2) 175 PSMH ED17

NOTES:
 1. NEW FIXTURES AND POLES ARE TO MATCH EXISTING FIXTURES AND POLES.
 2. PROVIDE EXTRA MATERIAL STOCK OF LAMPS. SEE SPECIFICATION SECTION 16500.

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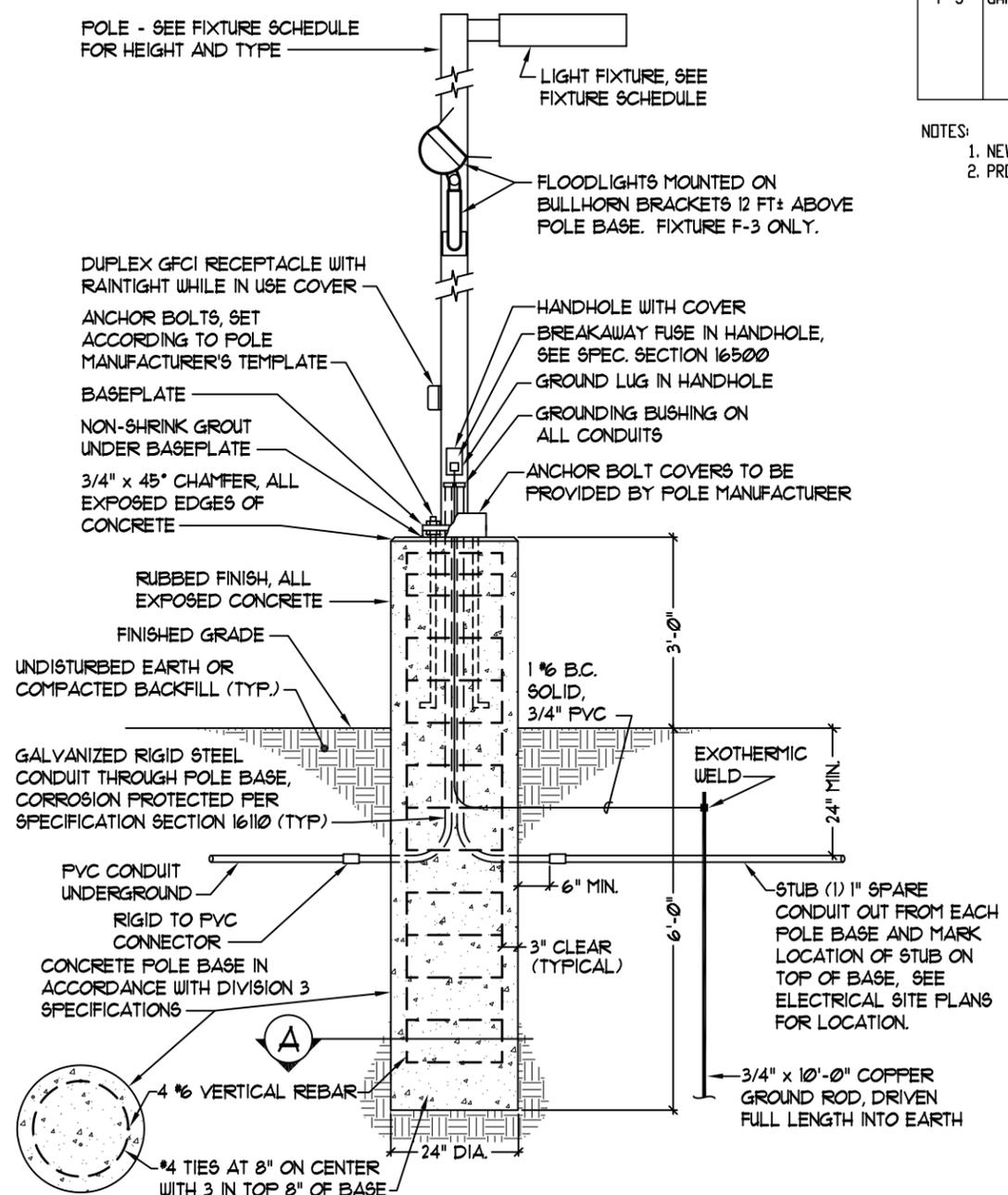
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SHEET TITLE:
 ELECTRICAL DETAILS AND SCHEDULES

SHEET NUMBER:
E-601

SHEET 15 OF 15

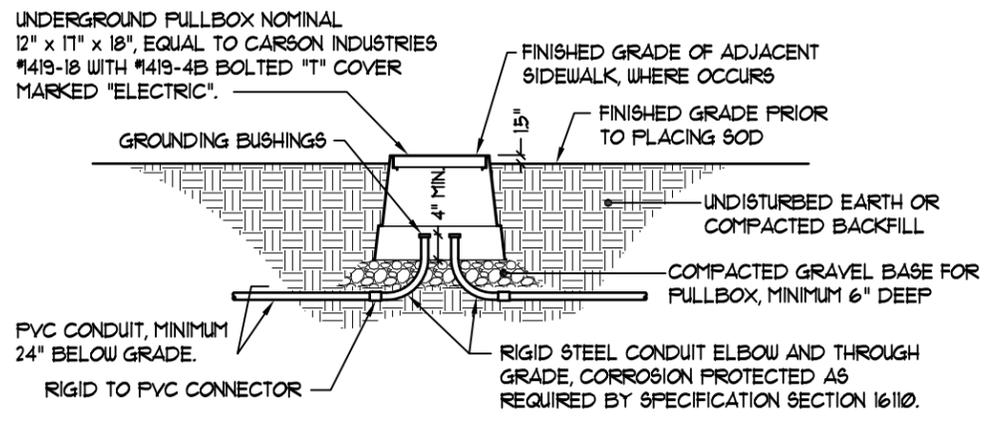


(A) TYPICAL POLE BASE DETAIL
 SCALE: 3/8" = 1'-0"

ELECTRICAL LEGEND

- EXISTING POLE MOUNTED AREA LIGHT
- [X] EXISTING POLE MOUNTED PARKING LOT LIGHT
- ∞ EXISTING FLOODLIGHT
- NEW POLE MOUNTED PARKING LOT LIGHT
- ∞ NEW FLOODLIGHT
- EXISTING UNDERGROUND JUNCTION BOX
- NEW UNDERGROUND JUNCTION BOX
- - - EXISTING UNDERGROUND CONDUIT
- NEW UNDERGROUND CONDUIT
- ⊕ GFI EXISTING RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- ⊕ GFI NEW RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- WP INDICATES ITEM WITH WEATHERPROOF ENCLOSURE

NOTE:
 INSULATE ALL CONDUCTOR SPLICES IN UNDERGROUND PULLBOX WITH HEAT SHRINK INSULATING KITS OR PRE-POTTED SPRING CONNECTORS. DO NOT SPLICE CONDUCTORS UNLESS NECESSARY.



(A4) UNDERGROUND PULLBOX DETAIL
 SCALE: 3/8" = 1'-0"