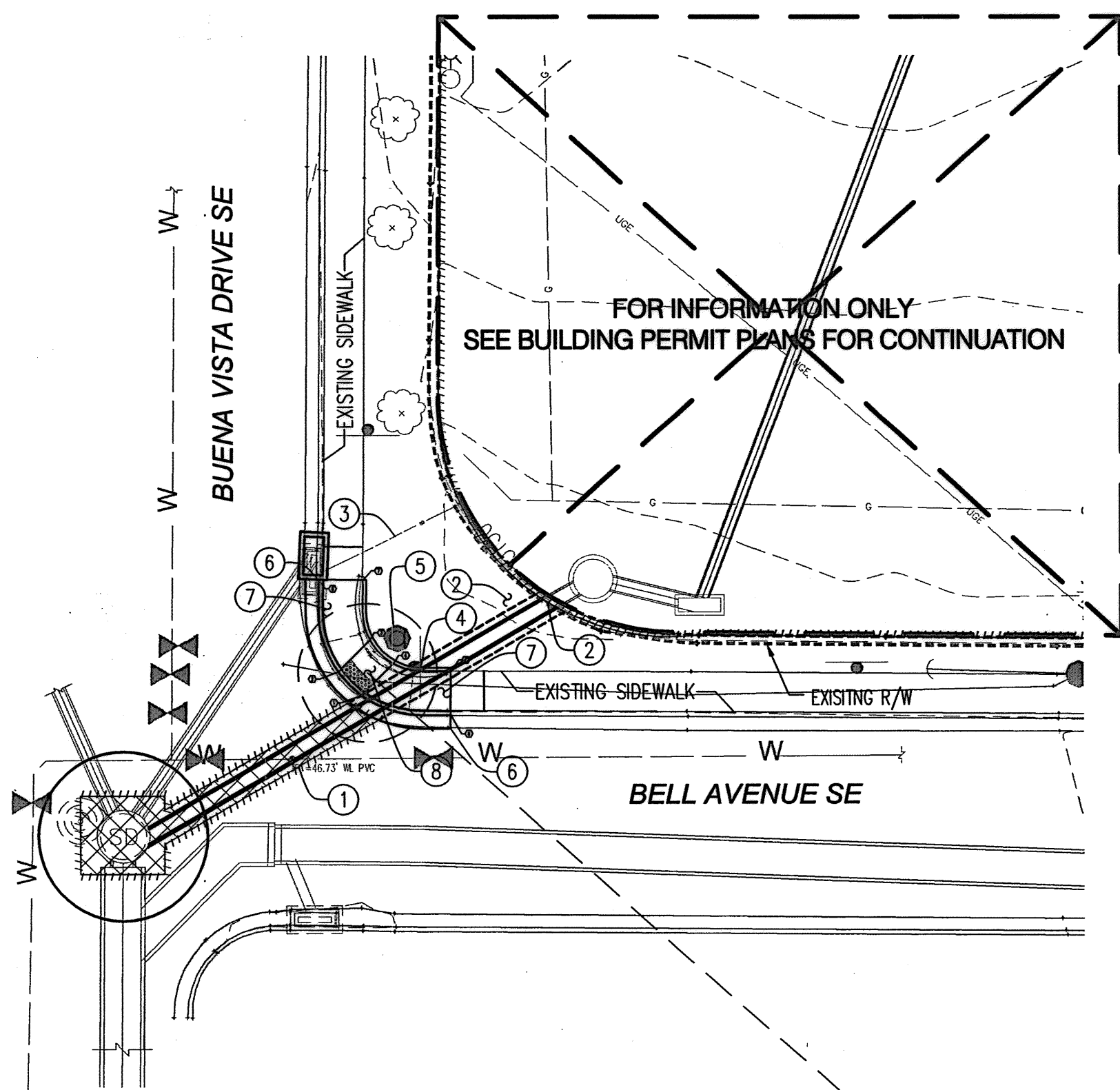
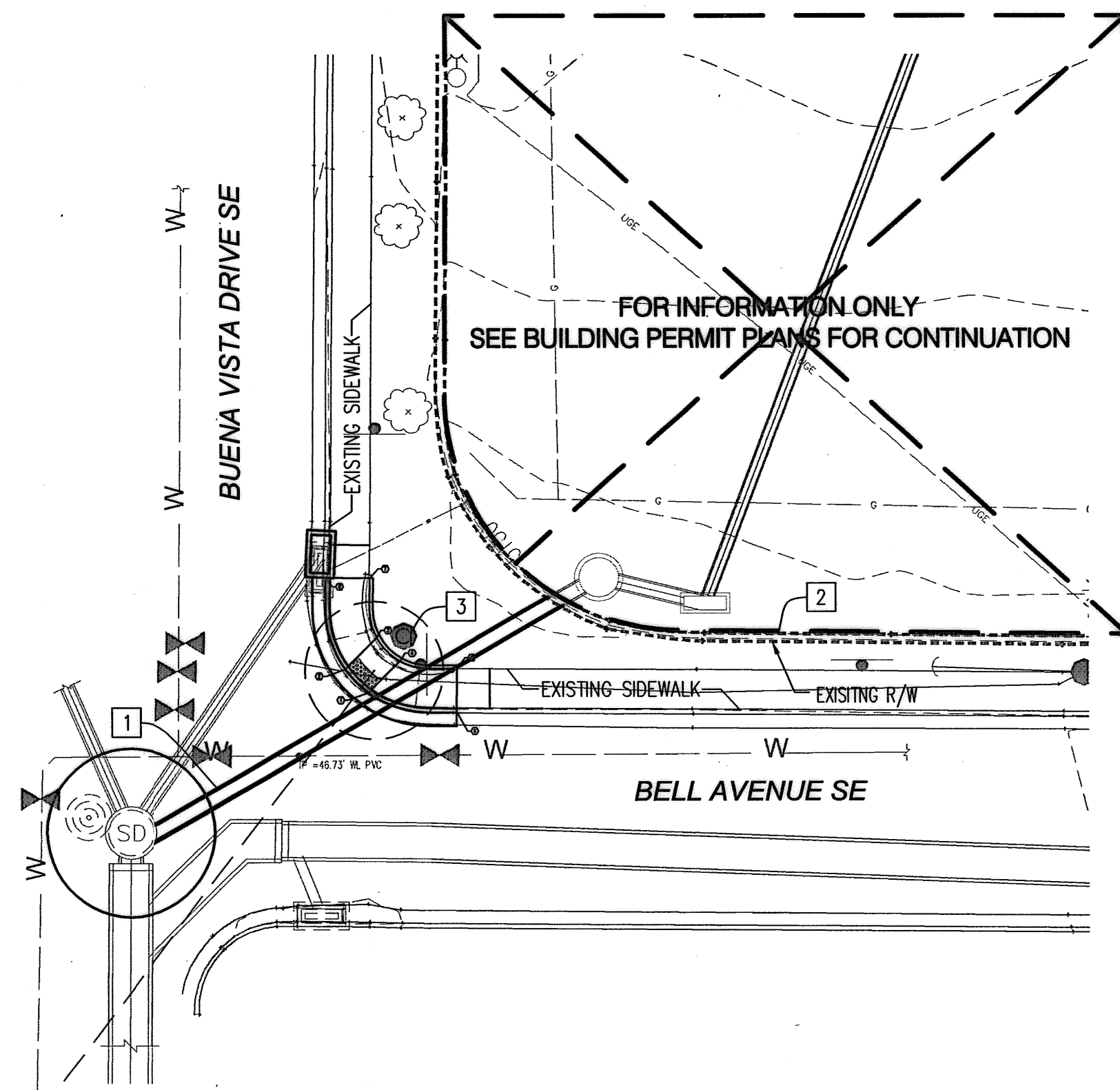


ALBUQUERQUE, NEW MEXICO

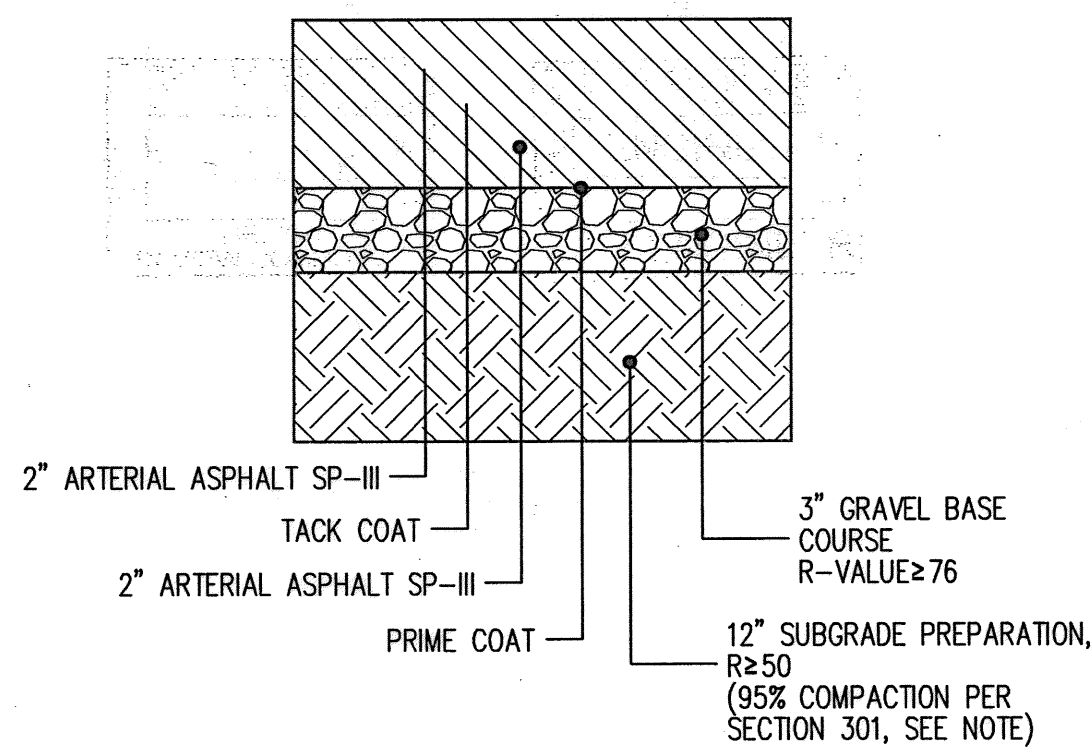
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DEMOLITION PLAN



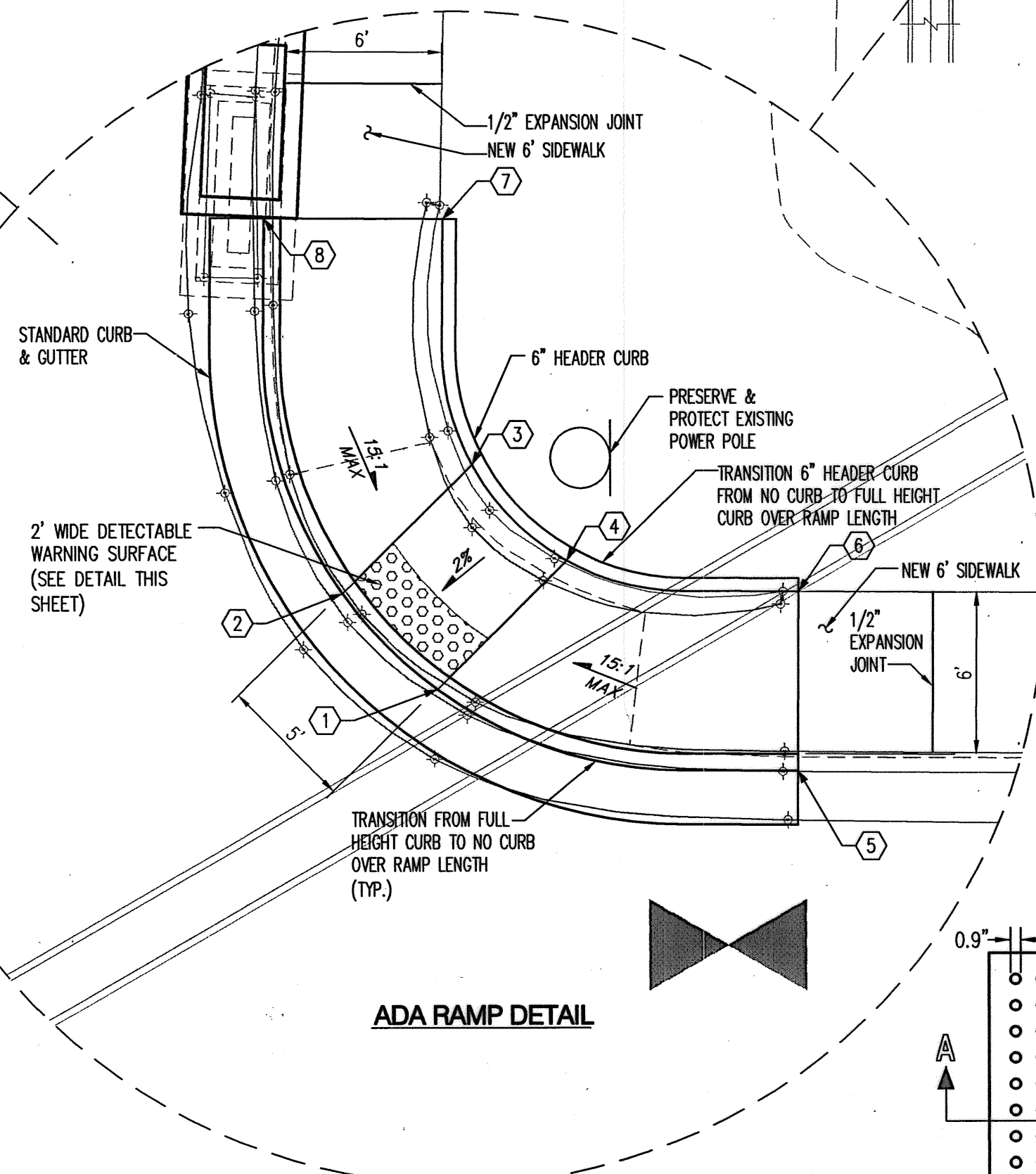
SITE PLAN



NOTE: SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER COA STANDARD SPECIFICATIONS.

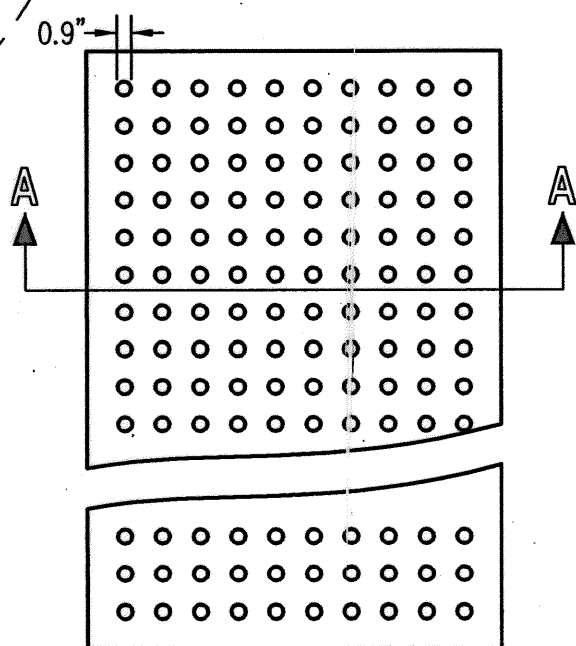
EXISTING TYPICAL PAVEMENT SECTION

BELL AVE. & BUENA VISTA DR.
(PER COA PROJECT NO. 452291)



ADA RAMP DETAIL

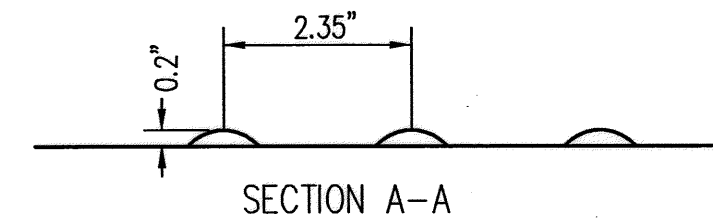
| ADA Ramp Point Table | | | |
|----------------------|------------|------------|-----------|
| ○ | EASTING | NORTHING | ELEVATION |
| 1 | 1528467.17 | 1481937.11 | 50.50 |
| 2 | 1528463.65 | 1481940.66 | 50.50 |
| 3 | 1528468.47 | 1481945.43 | 50.60 |
| 4 | 1528471.98 | 1481941.88 | 50.60 |
| 5 | 1528480.54 | 1481934.09 | 51.14 |
| 6 | 1528480.57 | 1481940.72 | 51.23 |
| 7 | 1528467.40 | 1481954.53 | 51.23 |
| 8 | 1528460.78 | 1481954.57 | 51.14 |



DETECTABLE WARNING SURFACE
NOT TO SCALE

DETECTABLE WARNING SURFACE NOTES:

- DESIGN PER ADA GUIDELINES.
- SUBMIT SPECIFICATIONS TO CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.
- THE DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 23mm. (0.9"), A NOMINAL HEIGHT OF 5mm. (0.2"), AND A NOMINAL CENTER TO CENTER SPACING OF 60mm. (2.35"). THE SURFACE SHALL BE FIBERGLASS PANELS (PROCESS TO BE COORDINATED WITH AND FIELD APPROVED WITH CITY PRIOR TO INSTALLATION).
- THE DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE INTEGRAL PART OF THE WALKING SURFACE. PROVIDE 70/30 CONTRAST PER ADA.
- CONTRACTOR SHALL COORDINATE THE EXACT CONTRAST OF DETECTABLE WARNING SURFACE W/ OWNER.



SECTION A-A

GENERAL NOTES

- ALL GRADING POINTS ARE MEASURED FROM THE FACE OF WALL, EDGE OF BUILDING.
- ALL DIMENSIONS SHOWN ARE IN FEET AND MEASURED TO THE FLOWLINE.

SITE PLAN KEYED NOTES

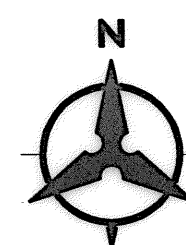
- NEW STORM DRAIN SYSTEM. SEE GRADING & DRAINAGE PLAN SHEET 3.
- PRESERVE AND PROTECT EXISTING CMU BLOCK WALL.
- PRESERVE AND PROTECT EXISTING POWER POLE.

DEMOLITION PLAN KEYED NOTES

- SAWCUT, REMOVE AND REPLACE EXISTING ASPHALT PER COA STD DWG 2465
- REMOVE AND REPLACE EXISTING WALL AND LANDSCAPING IN KIND
- CAP & SEAL EXISTING 6" STORM DRAIN LINE AT INLET
- REMOVE AND RESET EXISTING SIGN
- PRESERVE AND PROTECT EXISTING POWER POLE
- REMOVE AND REPLACE EXISTING CURB & GUTTER TO NEAREST JOINT PER COA STD DWG 2415
- REMOVE AND REPLACE EXISTING SIDEWALK TO NEAREST JOINT PER COA STD DWG 2430
- REMOVE AND REPLACE EXISTING ADA RAMP. SEE DETAIL THIS SHEET

LEGEND

- SAWCUT LINE
- XXXXXX PAVEMENT REMOVAL

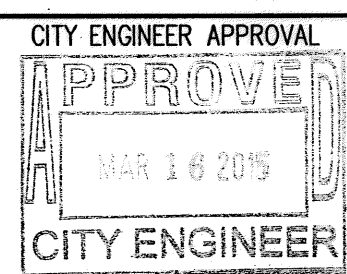


0 10 20 40
SCALE: 1"=20'

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YALE MAINTENANCE FACILITY - WORK ORDER

SITE & DEMOLITION PLAN



LAST DESIGN UPDATE

5798.91

DRAWING NO.

ZONE MAP NO.

L-15

SHEET

2

OF

3

| AS-BUILT INFORMATION | | | |
|--|------|--|------|
| CONTRACTOR | DATE | CONTRACTOR | DATE |
| WORKS | DATE | WORKS | DATE |
| STAGED BY | DATE | STAGED BY | DATE |
| ACCEPTANCE BY | DATE | ACCEPTANCE BY | DATE |
| FIELD | DATE | FIELD | DATE |
| DRAWINGS | DATE | DRAWINGS | DATE |
| CORRECTED BY | DATE | CORRECTED BY | DATE |
| MICRO-FILM INFORMATION | | | |
| STAMPED | DATE | STAMPED | DATE |
| 4" ALUMINUM DISC SET IN CURB | DATE | 4" ALUMINUM DISC SET IN CURB | DATE |
| N=1481800.00 E=1531683.860 ELEV: 5210.836 | DATE | N=1481800.00 E=1531683.860 ELEV: 5210.836 | DATE |
| HORIZONTAL DATUM NAD83 VERTICAL DATUM 1988 | DATE | HORIZONTAL DATUM NAD83 VERTICAL DATUM 1988 | DATE |



REVISIONS
DESIGN

DATE: 2/2015
DATE: 2/2015
DATE: 2/2015

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Tue, 10-Mar-2015 - 1:11:pm, Plotted by: RGBSON

CONSTRUCTION PLANS
FOR
BUILDING PERMIT

TRANSIT DEPARTMENT YALE MAINTENANCE FACILITY
STORM DRAINAGE & PARKING IMPROVEMENTS

ALBUQUERQUE, NEW MEXICO
INDEX

| SHEET NUMBER | DESCRIPTION |
|--------------|--|
| 1 | COVER SHEET |
| 2 | SITE PLAN |
| 3 | DEMOLITION PLAN |
| 4 | GRADING PLAN |
| 5 | PAVING PLAN |
| 6 | GENERAL CONSTRUCTION DETAILS |
| 7 | TANK COVER SLAB PLAN AND DETAILS |
| 8 | TRENCH DRAIN PLAN, ELEVATION AND DETAILS |
| 9 | FUEL TANK SITE PLAN |
| 10 | ELECTRICAL LEGEND |
| 11 | SITE LIGHTING PLAN |
| 12 | FUEL TANK ELECTRICAL PLAN |
| 13 | DEMOLITION LIGHTING PLAN |
| 14 | LIGHTING PLAN NORTH |
| 15 | LIGHTING PLAN SOUTH |
| 16 | ELECTRICAL DETAILS |
| 17 | ELECTRICAL DETAILS |

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
4. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
5. REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY), REMOVE CURB TO NEAREST JOINT.
6. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8, AMENDMENT #1.
7. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

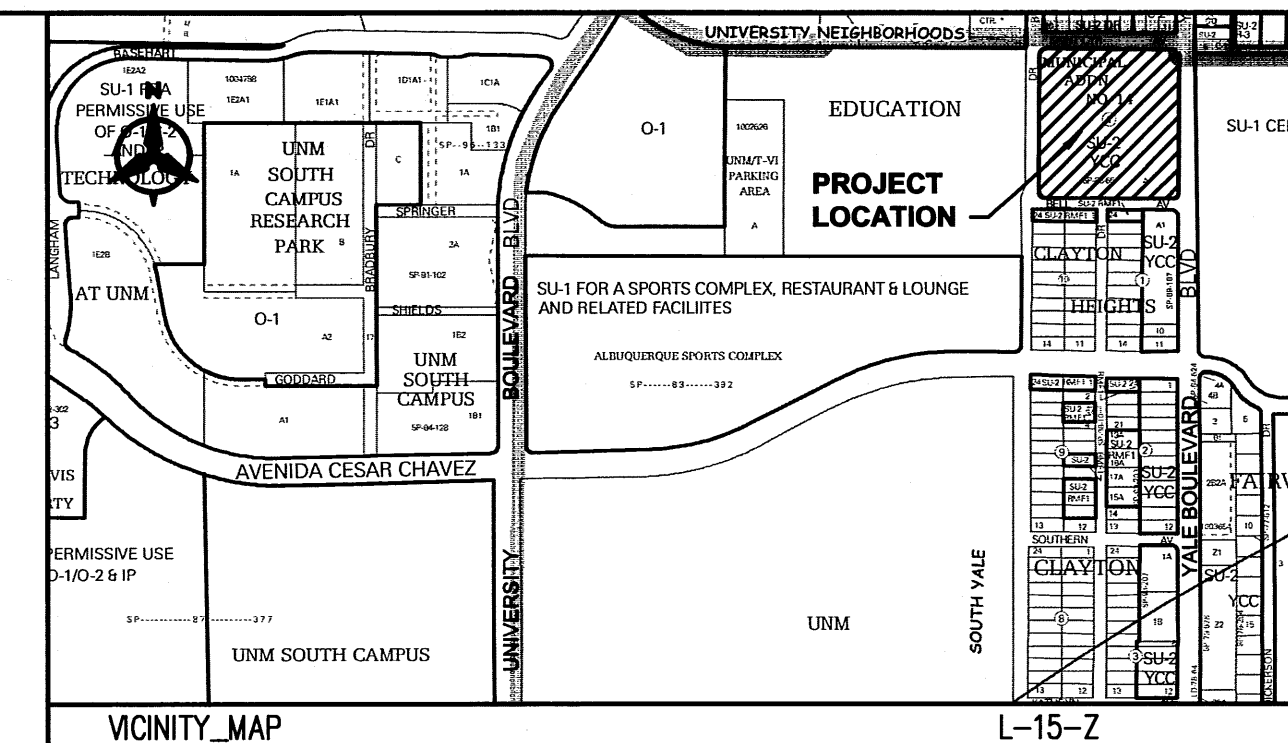
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
3. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION ENGINEER.
5. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
6. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
7. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE).

8. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
9. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
10. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
11. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, SIGNAGE, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

12. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.652.
13. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNAGE UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
14. ALL SWPPP EROSION CONTROL MEASURES MUST BE REMOVED FROM THE RIGHT OF WAY PRIOR TO FINAL ACCEPTANCE.



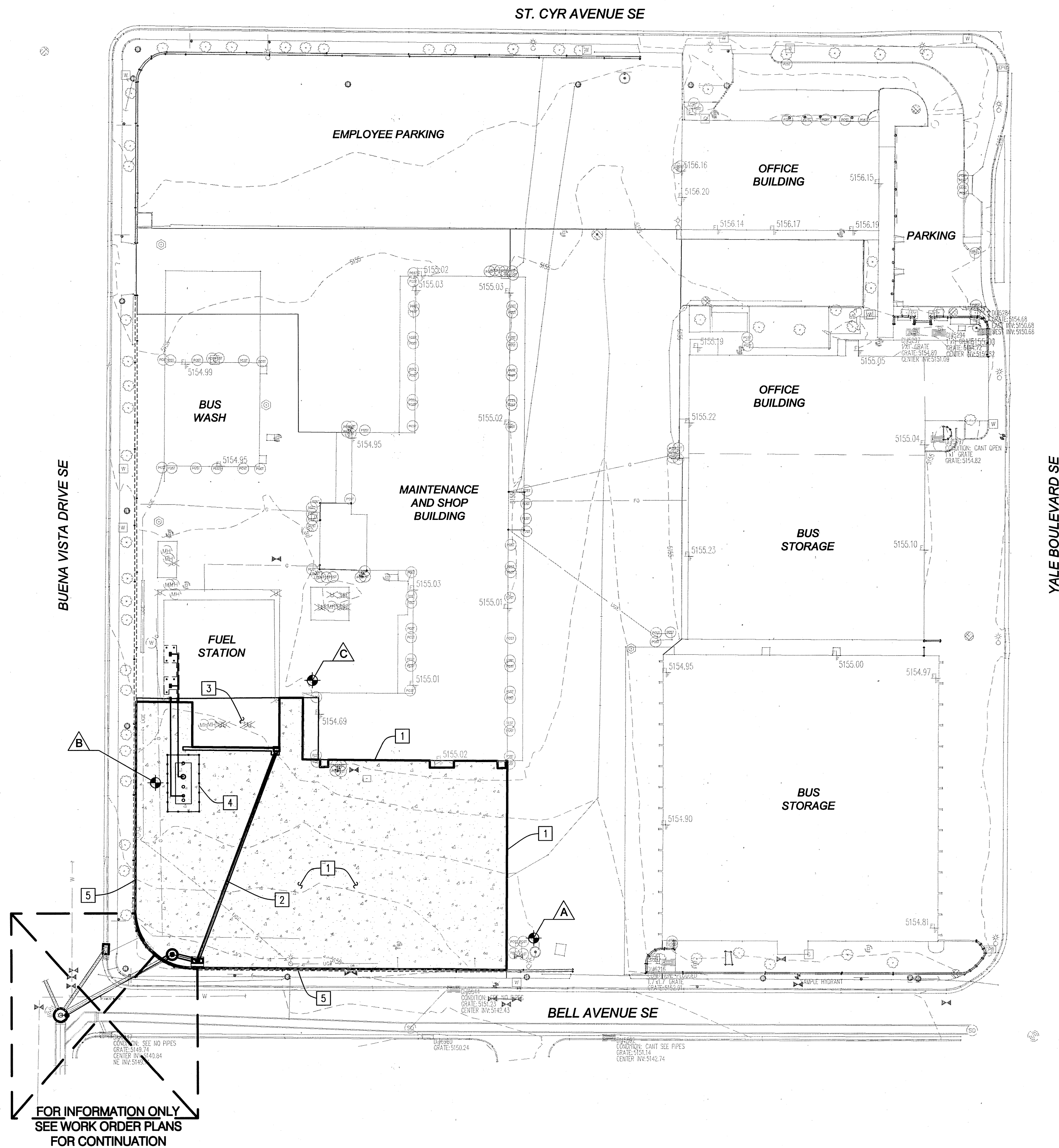
NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE NO. 8, INCLUDING AMENDMENT NO. 1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990 OR 811) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT, TO THE CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY FOURTEEN (14) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER UTILITY AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abqwater.org/Water_Main_Shutoff.aspx

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

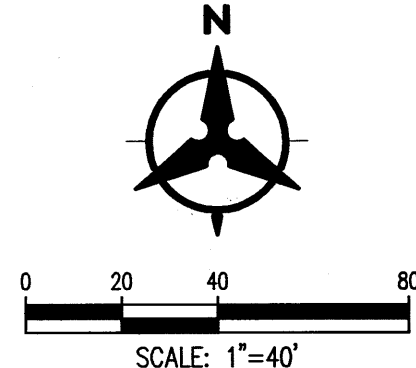
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| ENGINEERS STAMP & SIGNATURE | | APPROVALS | | ENGINEER | DATE | ***** | |
| | | DRC Chairman | | | | APPROVED FOR CONSTRUCTION | |
| | | Transportation | | | | | |
| | | Water/Wastewater | | | | | |
| | | Hydrology | | | | | |
| | | Parks | | | | | |
| | | Const. Mngmt. | | | | CITY ENGINEER | DATE |
| | | Const. Coord. | | | | | |
| | | NMUI | | | | | |
| DRB CASE NUMBER | | CITY PROJECT NO. | | 5798.91 | | SHEET | 1 OF 17 |



| BHI SURVEY CONTROL | | | |
|--------------------|-------------|--------------|--------------|
| | DESCRIPTION | NORTHING | EASTING |
| A | BHI-01 | 1481964.7220 | 1528731.7420 |
| B | BHI-02 | 1482063.7650 | 1528491.8210 |
| C | BHI-03 | 1482128.7210 | 1528591.5570 |

- KEYED NOTES**
- 1 LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT. SEE PAVING PLAN SHEET 5.
 - 2 NEW STORM DRAIN SYSTEM. SEE GRADING PLAN SHEET 4.
 - 3 PRESERVE AND PROTECT EXISTING FUEL TANK
 - 4 NEW UNLEADED FUEL TANK. SEE FUEL TANK SITE PLAN SHEET 9.
 - 5 PRESERVE AND PROTECT EXISTING CMU BLOCK WALL

- LEGEND**
- PAVEMENT REMOVAL & REPLACEMENT LIMITS
 - CONCRETE PAVEMENT
 - SURVEY BENCH MARK
 - BUILDING LINE & FINISHED FLOOR ELEVATION



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YALE MAINTENANCE FACILITY - BUILDING PERMIT

SITE PLAN

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

MO./DAY/YR.

MO./DAY/YR.

MO./DAY/YR.

5798.91

DRAWING NO.

ZONE MAP NO.

SHEET

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OF

17

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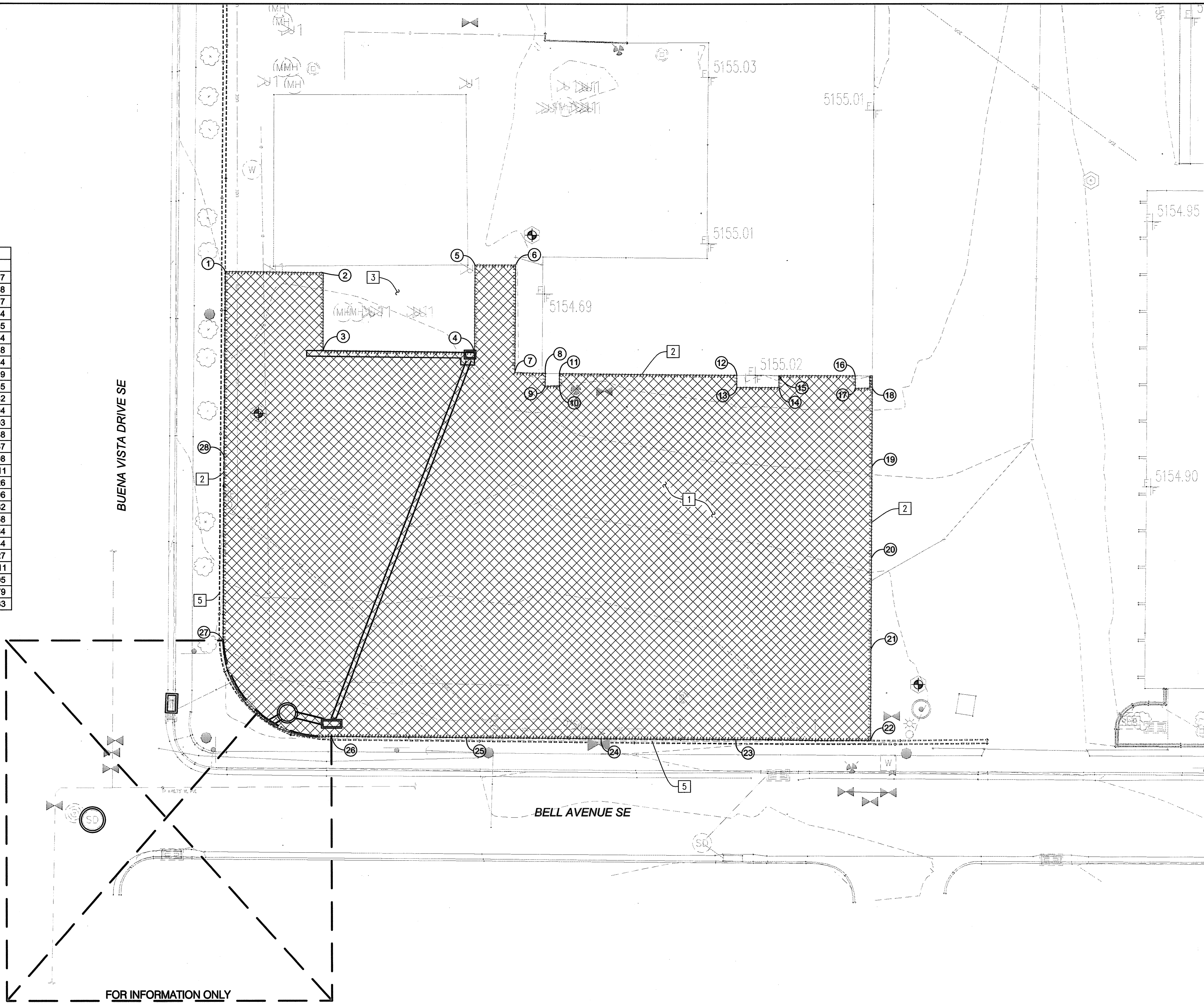
17

| AS-BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | | REVISIONS | | REMARKS | |
|------------------------|------|-------------|----|--------------------|----|-----------------|----|-----------|------|---------|------|
| CONTRACTOR | DATE | NO. | BY | NO. | BY | NO. | BY | NO. | DATE | NO. | DATE |
| WORKED BY | DATE | | | | | | | | | | |
| INSPECTED BY | DATE | | | | | | | | | | |
| ACCEPTANCE BY | DATE | | | | | | | | | | |
| VERIFICATION BY | DATE | | | | | | | | | | |
| DRAWINGS CORRECTED BY | DATE | | | | | | | | | | |
| MICRO-FILM INFORMATION | | | | | | | | | | | |
| RECORDED BY | DATE | | | | | | | | | | |
| NO. | | | | | | | | | | | |

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BHI JOB NO. 20130196

| Demolition Point Table | | |
|------------------------|------------|------------|
| ○ | NORTHING | EASTING |
| 1 | 1482115.38 | 1528479.87 |
| 2 | 1482114.93 | 1528515.38 |
| 3 | 1482086.55 | 1528515.27 |
| 4 | 1482085.86 | 1528570.44 |
| 5 | 1482117.71 | 1528570.65 |
| 6 | 1482117.71 | 1528585.54 |
| 7 | 1482078.61 | 1528585.18 |
| 8 | 1482078.37 | 1528596.34 |
| 9 | 1482073.70 | 1528596.19 |
| 10 | 1482073.80 | 1528601.45 |
| 11 | 1482078.29 | 1528601.42 |
| 12 | 1482077.62 | 1528666.04 |
| 13 | 1482073.21 | 1528666.03 |
| 14 | 1482073.15 | 1528681.38 |
| 15 | 1482077.51 | 1528681.37 |
| 16 | 1482077.37 | 1528709.08 |
| 17 | 1482072.78 | 1528709.11 |
| 18 | 1482072.86 | 1528715.26 |
| 19 | 1482044.10 | 1528715.06 |
| 20 | 1482010.87 | 1528714.82 |
| 21 | 1481977.63 | 1528714.58 |
| 22 | 1481944.39 | 1528714.34 |
| 23 | 1481944.82 | 1528665.44 |
| 24 | 1481945.25 | 1528616.27 |
| 25 | 1481945.67 | 1528567.11 |
| 26 | 1481946.10 | 1528517.95 |
| 27 | 1481980.96 | 1528478.79 |
| 28 | 1482048.17 | 1528479.33 |



FOR INFORMATION ONLY
SEE WORK ORDER PLANS
FOR CONTINUATION

GENERAL NOTES

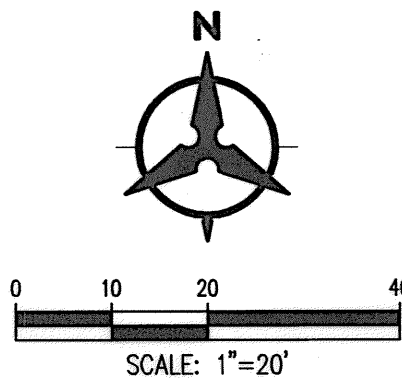
- ALL GRADING POINTS ARE MEASURED FROM THE FACE OF WALL, EDGE OF BUILDING.
- ALL DIMENSIONS SHOWN ARE IN FEET AND MEASURED TO THE FLOWLINE.

KEYED NOTES

- REMOVE AND DISPOSE OF EXISTING ASPHALT SURFACE
- SAWCUT EXISTING ASPHALT
- PRESERVE AND PROTECT EXISTING FUEL TANKS
- PRESERVE AND PROTECT EXISTING CONCRETE VAULT
- PRESERVE AND PROTECT EXISTING CMU BLOCK WALL

LEGEND

- SAWCUT LINE
- PAVEMENT REMOVAL
- SURVEY BENCH MARK



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YALE MAINTENANCE FACILITY - BUILDING PERMIT

DEMOLITION PLAN

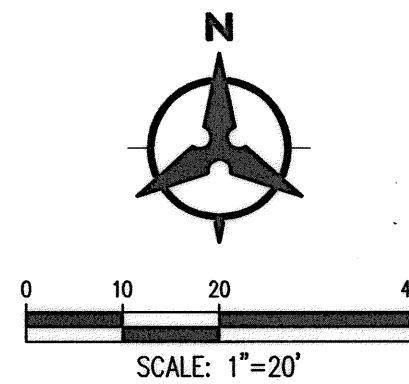
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| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | | MO./DAY/YR. | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5798.91 | DRAWING NO. | ZONE MAP NO. | SHEET | OF | | |
| | | L-15 | 3 | 17 | | |

| SURVEY INFORMATION | | BENCH MARKS | | AS-BUILT INFORMATION | |
|--------------------|------|-------------|------|------------------------|------|
| NO. | DATE | BY | DATE | CONTRACTOR | DATE |
| | | | | STARTED BY | DATE |
| | | | | ACCEPTANCE BY | DATE |
| | | | | FIELD INSPECTION BY | DATE |
| | | | | DRAWINGS CORRECTED BY | DATE |
| | | | | MICRO-FILM INFORMATION | DATE |
| | | | | RECORDED BY | DATE |
| | | | | NO. | DATE |



| NO. | DATE | REMARKS | BY |
|--------------|------|-----------|--------|
| | | REVISIONS | |
| | | DESIGN | |
| DESIGNED BY: | RGG | DATE: | 2/2015 |
| DRAWN BY: | LAH | DATE: | 2/2015 |
| CHECKED BY: | RGG | DATE: | 2/2015 |

BUENA VISTA DRIVE SE

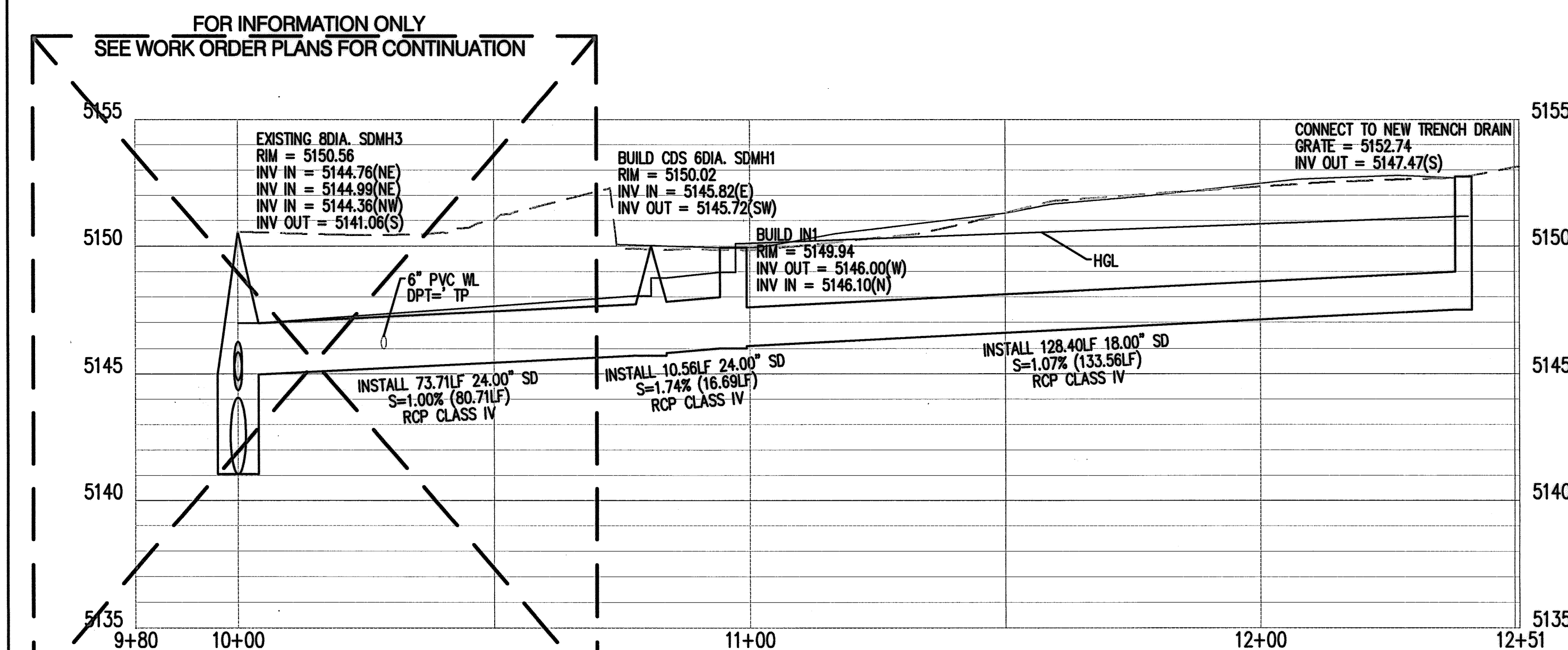


GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL GAS AND SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT.
3. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
4. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
5. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
6. MANHOLE RIMS AND CATH BASIN INLET ELEVATIONS ARE APPROXIMATE.
7. MANHOLES SHALL BE TYPE "E" BUILT PER COA STD DRAWING 2102 UNLESS OTHERWISE NOTED.
8. FOR RCP STORM DRAIN CONSTRUCTION: ALL RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION SHALL DETERMINE WHICH JOINTS ARE TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
9. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
10. AREA STORM DRAIN INLETS SHALL BE DOUBLE TYPE "D" INLETS BUILT PER COA STD. DRAWING 2206.
11. INLET GRATES SHALL BE BUILT PER COA STD. DRAWING 2220.
12. LOCATION DATA FOR MANHOLES AND INLETS IN CENTER OF STRUCTURE UNLESS NOTED OTHERWISE.
13. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT.
15. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
16. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR SHALL FOLLOW SWPPP AND BMP.
17. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.
18. GRADE ELEVATIONS WHERE NOTED ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.

KEYED NOTES

- 1 PROPOSED CDS MANHOLE, 6' DIA. PER DETAIL, SHEET 6.
SYSTEM MODEL 3020-6.
- 2 PROPOSED DROP INLET TYPE DOUBLE D PER COA STD
DWG 2206.
- 3 INSTALL TRENCH DRAIN PER DETAILS, SHEET S2.
- 4 PROPOSED RCP CLASS IV.
- 5 PROPOSED FUEL STORAGE TANK
- 6 EXISTING CMU BLOCK WALL TO REMAIN
- 7 NOT USED
- 8 NOT USED
- 9 EXISTING FIRE HYDRANT TO REMAIN.
- 10 ADJUST WATER VALVE TO GRADE
- 11 NOT USED
- 12 EXISTING LIGHT POLE TO REMAIN.
- 13 EXISTING UTILITY TO REMAIN. DO NOT DISTURB.
- 14 OUT OF SERVICE GAS LINE.



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Thu, 26-Feb-2015 - 2:13:pm, Plotted by: LAHINDE

MANHOLE CONNECTION DETAIL

BHI JOB NO. 20130196

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YALE MAINTENANCE FACILITY - BUILDING PERMIT

GRADING PLAN

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| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
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CDS3020-6-C DESIGN NOTES

CDS3020-6-C RATED TREATMENT CAPACITY IS 2.0 CFS [56.6 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 20.0 CFS [566 L/s]. IF THE SITE CONDITIONS EXCEED 20.0 CFS [566 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS3020-6-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)

| |
|---------------------------------------|
| GRATED INLET WITH INLET PIPE OR PIPES |
|---------------------------------------|

CURB INLET ONLY (NO INLET PIPE)

CURB INLET WITH INLET PIPE OR PIPES

SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)

SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

| | |
|--------------------------------------|---|
| STRUCTURE ID | |
| WATER QUALITY FLOW RATE (CFS OR L/s) | * |
| PEAK FLOW RATE (CFS OR L/s) | * |
| RETURN PERIOD OF PEAK FLOW (YRS) | * |
| SCREEN APERTURE (2400 OR 4700) | * |

| PIPE DATA: | I.E. | MATERIAL | DIAMETER |
|--------------|------|----------|----------|
| INLET PIPE 1 | * | * | * |
| INLET PIPE 2 | * | * | * |
| OUTLET PIPE | * | * | * |

| | |
|---------------|---|
| RIM ELEVATION | * |
|---------------|---|

| | | |
|------------------------|-------|--------|
| ANTI-FLOTATION BALLAST | WIDTH | HEIGHT |
| | * | * |

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

- ### GENERAL NOTES

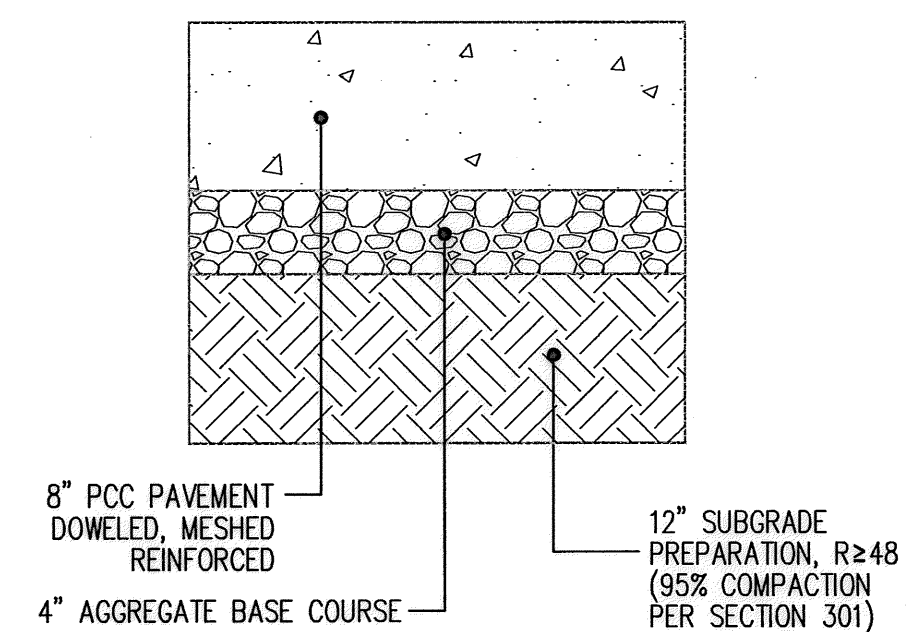
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL BE DESIGNED TO RESIST ALL LOADS AND CASTINGS SHALL MEET US20 (ASHTO M 240) REQUIREMENTS, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

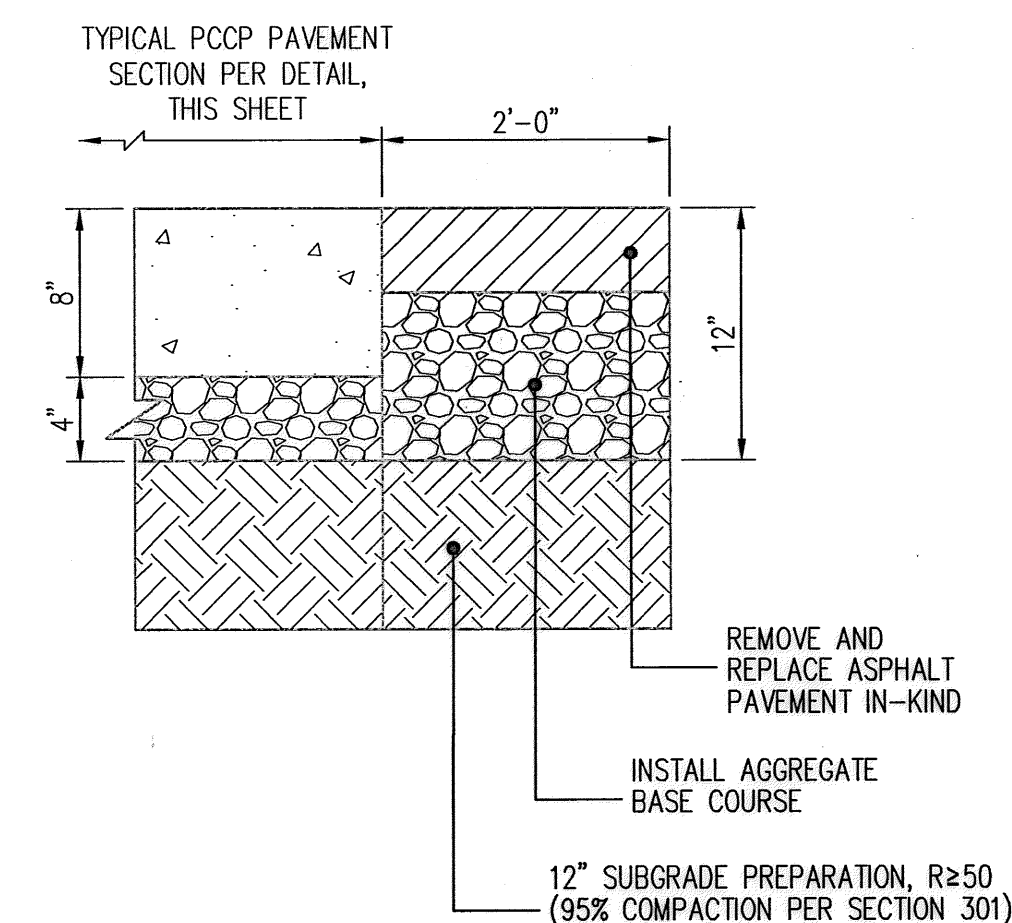


CDS3020-6-C
 INLINE CDS
 STANDARD DETAIL



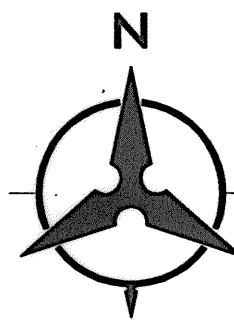
NOTE: ALL PAVING CONCRETE JOINTS INSTALLED PER COA
STD DRAWINGS 2450, 2451, 2452, 2453. CONTRATOR
SHALL PREPARE AND PRESENT JOINT DETAIL DRAWING TO
COA FIELD ENGINEER FOR APPROVAL.

TYPICAL PCCP PAVEMENT SECTION



ON-SITE ASPHALT PAVEMENT SECTION

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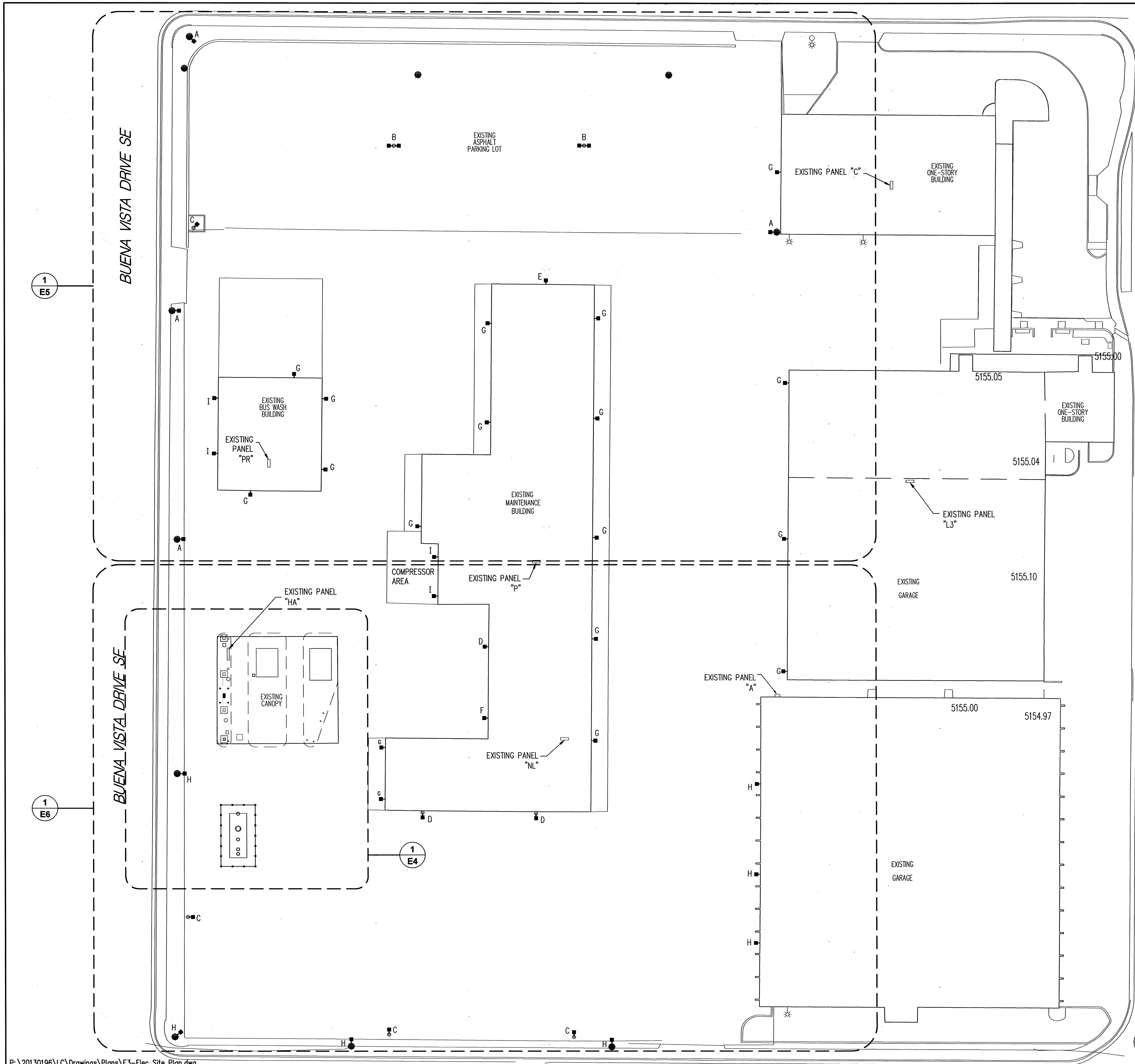


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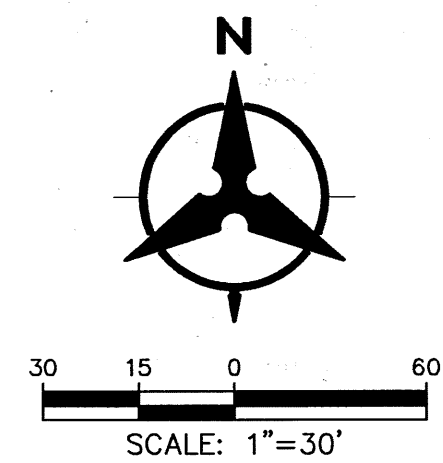
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| 5798.91 | DRAWING NO. C1 | ZONE MAP NO. L-15 | SHEET 9 | OF 16 |



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Fri, 30-Jan-2015 - 1:11:pm, Plotted by: THOPKINS

BHI JOB NO. 20130196

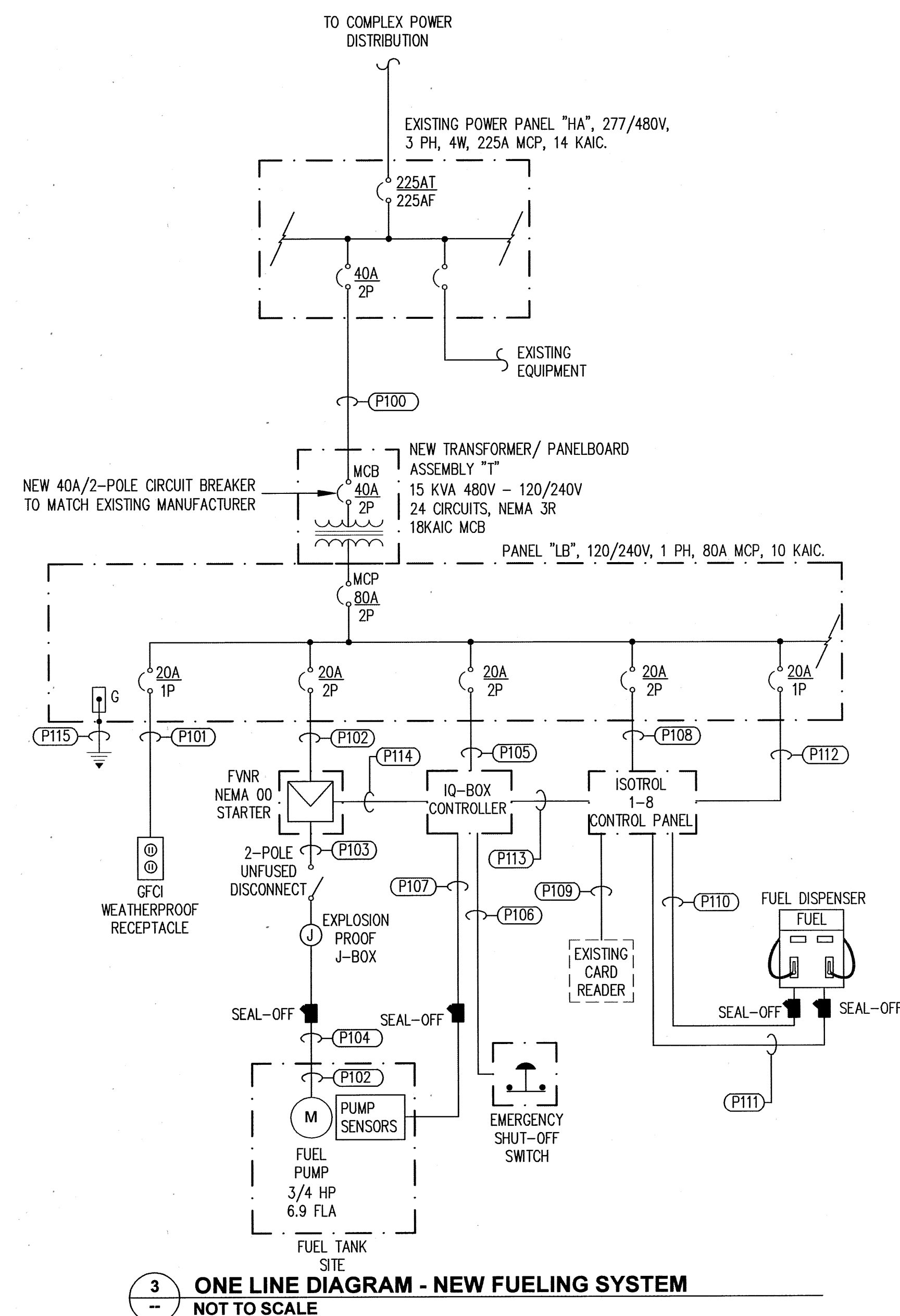
OVER ALL ELECTRICAL
SITE PLAN
SCALE: 1"=30'



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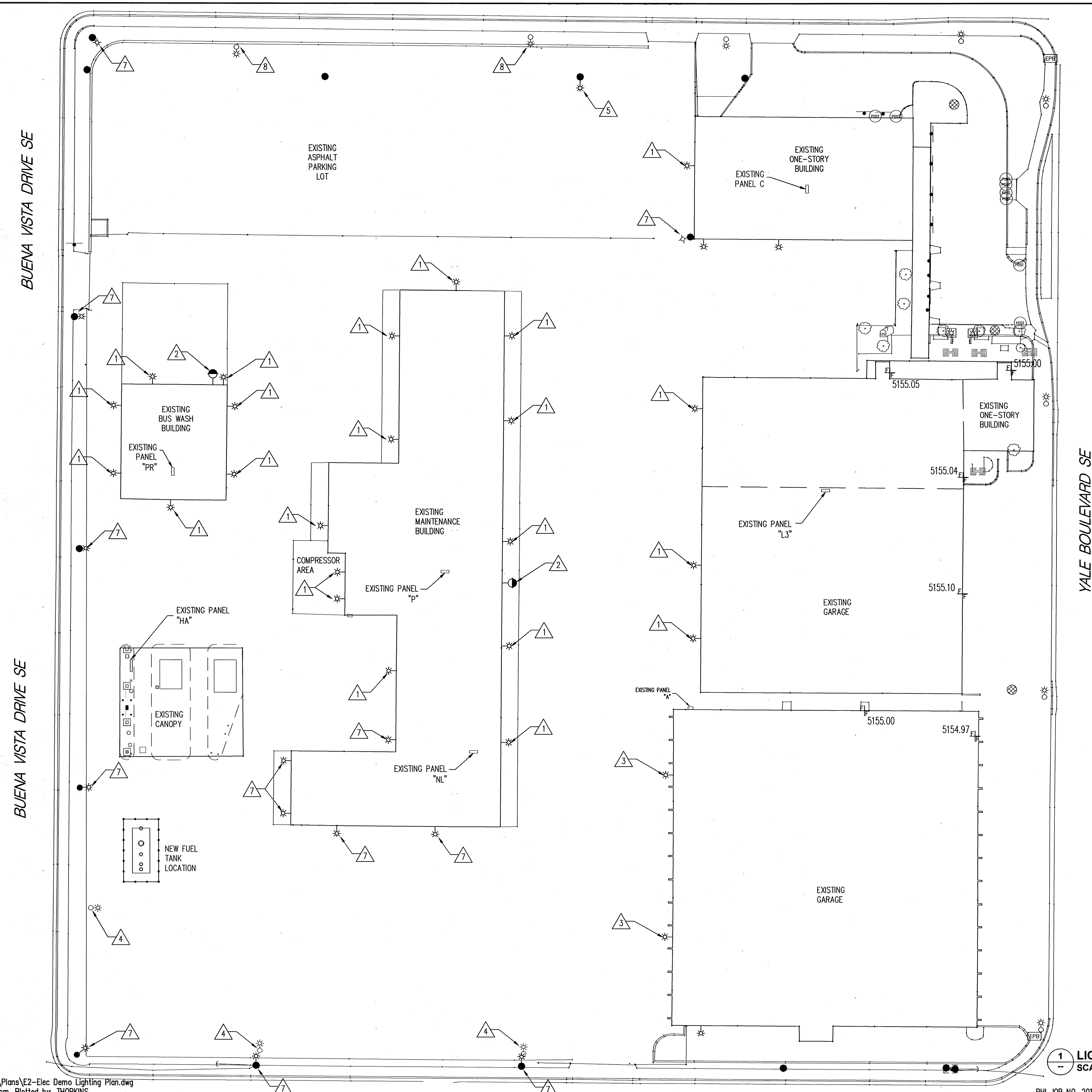
| YALE MAINTENANCE FACILITY ELECTRICAL SITE PLAN | | | | |
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| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
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| 5798.91 | DRAWING NO. E3 | ZONE MAP NO. L-15-Z | SHEET 11 | OF 17 |
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| ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS-BUILT INFORMATION | |
|------------------|--|--------------------|----|----------------------------------|--|------------------------|------|
| | | FIELD NOTES | | SEE SURVEY CONTROL PLAN, SHEET 3 | | CONTRACTOR | |
| | | NO. | BY | DATE | | STARTED BY | DATE |
| REMARKS | | NO. | | BY | | INSPECTOR'S | |
| DESIGNED BY: MMB | | DATE: 01/01/2014 | | FIELD RANGE BY | | DATE | |
| DRAWN BY: LLM | | DATE: 01/01/2014 | | FIELD RANGE BY | | DATE | |
| CHECKED BY: MTT | | DATE: 01/01/2014 | | FIELD RANGE BY | | DATE | |
| | | | | | | VERIFICATION BY | |
| | | | | | | DATE | |
| | | | | | | CORRECTED BY | |
| | | | | | | DATE | |
| | | | | | | MICRO-FILM INFORMATION | |
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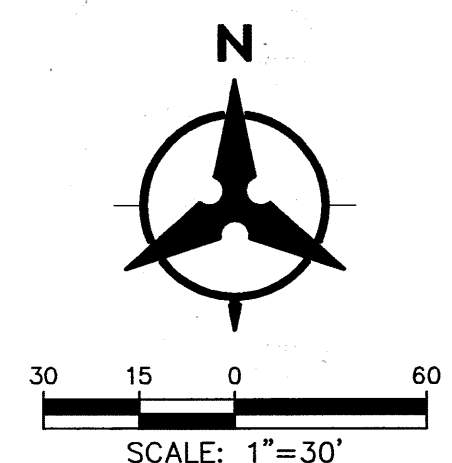


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| 5798.91 | DRAWING NO. E4 | ZONE MAP NO. L-15 | SHEET 12 | OF 16 |



- ## ⚠️ DEMOLITION NOTES
1. REMOVE EXISTING WALL MOUNTED FIXTURES AND DISPOSE OF PROPERLY. CONDUCTORS TO REMAIN IN PLACE.
 2. REMOVE EXISTING PHOTOCELLS AND DISPOSE OF PROPERLY. REMOVE CONDUCTORS FROM POWER SOURCE TO PHOTOCELL AND SALVAGE TO OWNER. CAP SEAL UNNECESSARY CONDUITS WATERTIGHT.
 3. REMOVE EXISTING ROOF MOUNTED FLOOD FIXTURES AND DISPOSE OF PROPERLY.
 4. REMOVE EXISTING FIXTURES AND DISPOSE OF PROPERLY. REMOVE POLES AND SALVAGE TO OWNER. COORDINATE WITH SITEWORK TO REMOVE POLE, FOUNDATION AND FILL WITH AGGREGATE BASE COURSE AND COMPACT FOUNDATION VOIDS. REMOVE FOUNDATION DEBRIS FROM SITE AND DISPOSE OF PROPERLY.
 5. COORDINATE WITH PNM TO REMOVE POLE MOUNTED FIXTURE AND AERIAL CONDUCTORS AND DISPOSE OF PROPERLY.
 6. REMOVE EXISTING FIXTURES AND DISPOSE OF PROPERLY. CAP CONDUCTORS AND INSTALL BLANKING PLATE OVER JUNCTION BOX. USE SEALANT TO ENSURE JUNCTION BOX IS WATER TIGHT.
 7. REMOVE EXISTING FIXTURES MOUNTED TO PNM POLES. COORDINATE WITH PNM FOR REMOVAL. COIL AND CAP AND SECURE CONDUCTORS PER PNM DIRECTION FOR REMOVAL BY PNM OR UNTIL NEW FIXTURES ARE INSTALLED.
 8. REMOVE EXISTING FIXTURES AND DISPOSE OF PROPERLY. REMOVE POLES AND SALVAGE TO OWNER. CUT OFF PROTRUDING BOLTS FLUSH WITH FOUNDATION AND PERMANENTLY SEAL CONDUIT WATER TIGHT.

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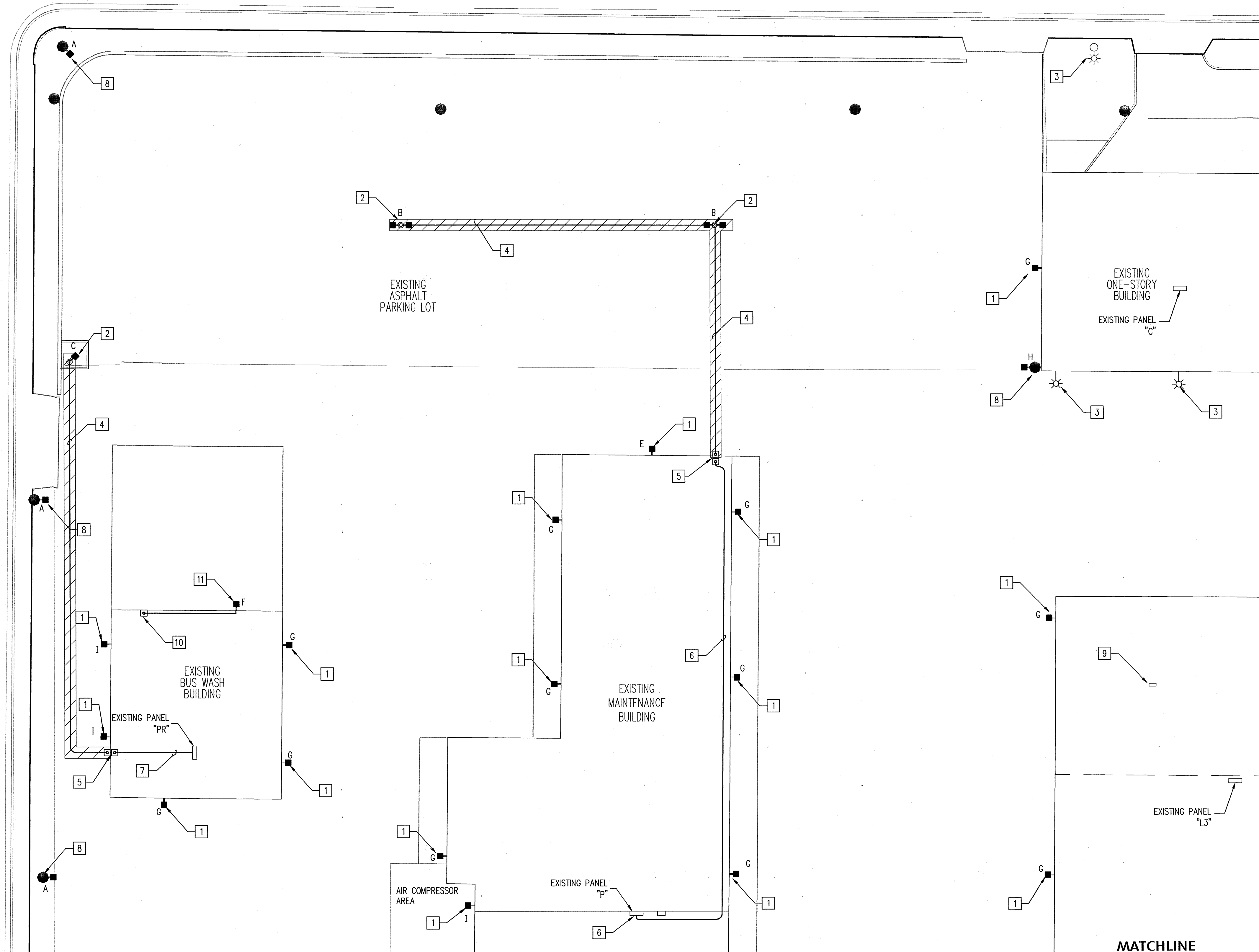
YALE MAINTENANCE FACILITY
ELECTRICAL LIGHTING DEMOLITION PLAN

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| 5798.91 | DRAWING NO. E2 | ZONE MAP NO. L-15-Z | SHEET 13 | OF 17 |

1 LIGHTING DEMOLITION PLAN
--
SCALE: 1" = 30'

BUENA VISTA DRIVE SE

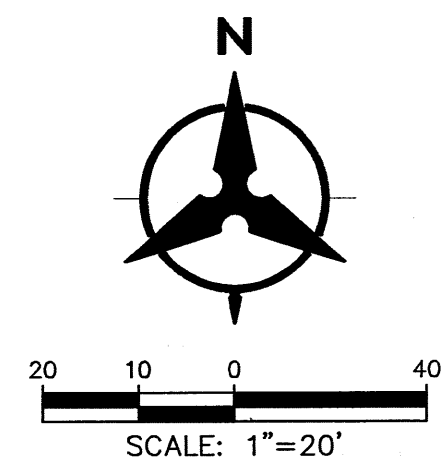
ST. CYR AVENUE SE



1 EXTERIOR LIGHTING PLAN - NORTH
SCALE: 1" = 20'

CONSTRUCTION NOTES

1. INSTALL NEW WALL MOUNTED LIGHT FIXTURE TO EXISTING FIXTURE JUNCTION BOXES AND CONNECT TO EXISTING CONDUCTOR SETS. SEE LIGHT FIXTURE SCHEDULE DWG E7.
2. INSTALL LIGHT POLE FOUNDATION, POLE AND LIGHT FIXTURE PER DETAIL AND LIGHT FIXTURE SCHEDULE DWG E7.
3. EXISTING FIXTURE TO REMAIN AS-IS.
4. ROUTE 1" CONDUIT AND 1-8 AWG LINE, 1-8 AWG NEUTRAL, AND 1-8 AWG GROUND CONDUCTORS 24" BELOW FINISH GRADE TO LIGHT POLE FOUNDATIONS. SAWCUT AND REMOVE ASPHALT DRIVEWAY 24" WIDE. REPLACE ALL EXISTING SURFACES REQUIRED TO BE REMOVED DUE TO SAWING OR TRENCHING WITH MATERIALS AND THICKNESSES TO MATCH EXISTING.
5. RISE EMT CONDUIT AT EXTERIOR BUILDING WALL. INSTALL NEMA 3R JUNCTION BOX ON WALL AT 2'-0" AFG. NIPPLE THROUGH WALL AND INSTALL JUNCTION BOX ON BUILDING INTERIOR WALL AND RISE TO TRUSS LINE.
6. RISE 1" EMT CONDUIT FROM JUNCTION BOX TO CEILING TRUSS LINE AND EXTEND CONDUIT AND CONDUCTORS TO EXISTING PANEL "P". LAND CONDUCTORS ON A SPARE 20 AMP CB.
7. RISE 1" EMT CONDUIT FROM JUNCTION BOX TO CEILING AND EXTEND CONDUIT AND CONDUCTORS TO EXISTING PANEL "PR". LAND CONDUCTORS ON A SPARE 20 AMP CB.
8. COORDINATE WITH PNM AND INSTALL NEW FIXTURE TO EXISTING WOOD POLE AND MOUNTING HARDWARE AND CONNECT TO EXISTING CONDUCTORS.
9. INSTALL WIRELESS ACCESS POINT (AP) IN LOCATION IN ADMINISTRATION BUILDING AS DIRECTED BY OWNER. CONNECT TO 120V POWER AND DATA NETWORK PORT WITH CAT5e CABLE. ENSURE LOCATION DOES NOT INTERFERE WITH WIRELESS COMMUNICATION TO FIXTURE MODULES.
10. INTERCEPT EXISTING CONDUIT AND MOUNT JUNCTION BOX ON INTERIOR WALL. EXTEND CONDUIT AND CONDUCTORS TO NEW LIGHT FIXTURE LOCATION.
11. INSTALL NEW JUNCTION BOX RECESSED IN WALL AT HEIGHT TO MATCH EXISTING AND INSTALL NEW LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE DWG E7.



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YALE MAINTENANCE FACILITY
EXTERIOR LIGHTING PLAN

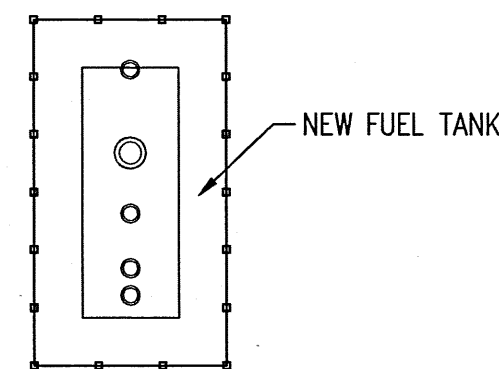
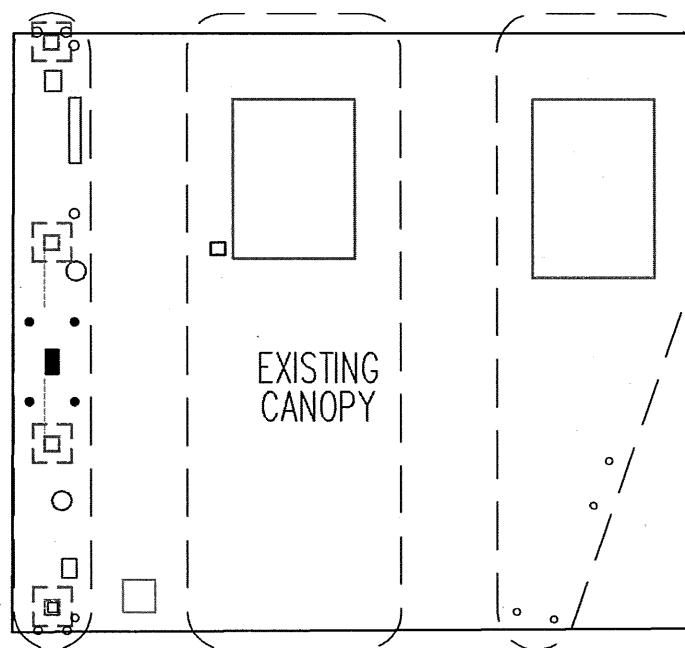
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MATCHLINE
SEE SHEET E5

MATCHLINE
SEE SHEET E5

BUENA VISTA DRIVE SE

BELL AVENUE SE



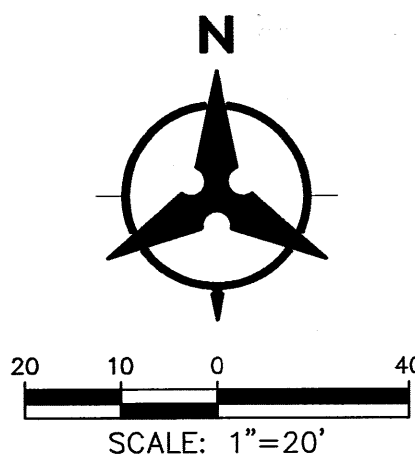
COMPRESSOR AREA

EXISTING MAINTENANCE BUILDING

EXISTING PANEL "NL"

EXISTING GARAGE

EXISTING GARAGE



1 EXTERIOR LIGHTING PLAN - SOUTH
SCALE: 1"=20'

CONSTRUCTION NOTES

1. INSTALL NEW LIGHT FIXTURE TO EXISTING FIXTURE LOCATION. SEE LIGHT FIXTURE SCHEDULE DWG E7.
2. INSTALL LIGHT POLE FOUNDATION, POLE AND LIGHT FIXTURE PER DETAIL AND LIGHT FIXTURE SCHEDULE DWG E7.
3. EXISTING FIXTURE TO REMAIN AS-IS.
4. ROUTE 1" CONDUIT AND 1-8 AWG LINE, 1-8 AWG NEUTRAL, AND 1-8 AWG GROUND CONDUCTORS BELOW GRADE TO LIGHT POLE FOUNDATIONS. TOP OF CONDUIT SHALL BE A MINIMUM OF 24" BFG. COORDINATE WITH STAGING AREA RESURFACING PROJECT FOR INSTALLATION OF CONDUIT.
5. INSTALL NEMA 3R JUNCTION BOX ON WALL AT 5'-0" AFG. NIPPLE THROUGH WALL AND INSTALL JUNCTION BOX ON BUILDING INTERIOR WALL.
6. RISE CONDUIT FROM JUNCTION BOX TO CEILING AND EXTEND TO EXISTING PANEL "NL".
7. INTERCEPT EXISTING CONDUIT AND MOUNT JUNCTION BOX ON INTERIOR WALL. EXTEND CONDUIT AND CONDUCTORS TO NEW LIGHT FIXTURE LOCATION.
8. INSTALL NEW JUNCTION BOX RECESSED IN WALL AT HEIGHT TO MATCH EXISTING AND INSTALL NEW LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE DWG E7.
9. MOUNT NEW LIGHT FIXTURE TO NEW LOCATION ON BUILDING ROOF. SEE LIGHT FIXTURE SCHEDULE DWG E7.
10. INTERCEPT EXISTING CONDUIT AND MOUNT JUNCTION BOX ON INSIDE OF PARAPET WALL.
11. INSTALL NEW 1-10 AWG LINE, 1-10 AWG NEUTRAL AND 1-10 AWG GROUND FROM NEW JUNCTION BOX TO NEW LIGHT FIXTURE.
12. COORDINATE WITH PNM AND INSTALL NEW FIXTURE TO EXISTING WOOD POLE AND MOUNTING HARDWARE AND CONNECT TO EXISTING CONDUCTORS

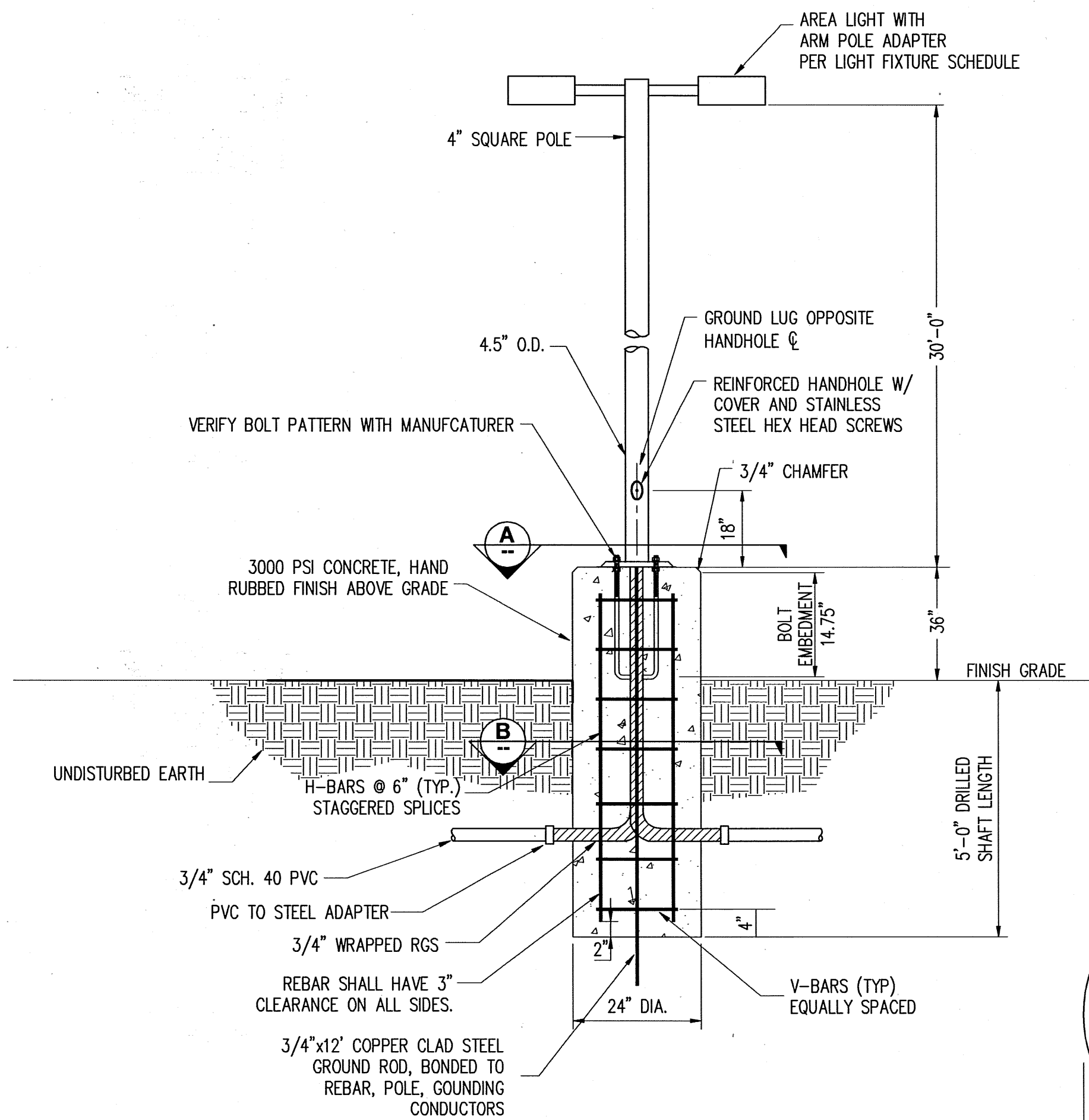
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|----------------------|------|---------------|------|--------------------|----|-----------------|-----|-----------|----|--------|----|------|----|
| CONTRACTOR | DATE | WORKED BY | DATE | NO. | BY | DATE | NO. | DATE | BY | DATE | BY | DATE | BY |
| INSPECTED BY | DATE | ACCEPTANCE BY | DATE | | | | | | | | | | |
| REVISIONS | DATE | REVISIONS | DATE | | | | | | | | | | |
| DRAWINGS | DATE | DRAWINGS | DATE | | | | | | | | | | |
| CORRECTED BY | DATE | CORRECTED BY | DATE | | | | | | | | | | |
| RECORDED BY | DATE | RECORDED BY | DATE | | | | | | | | | | |
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YALE MAINTENANCE FACILITY ELECTRICAL SITE AND EXTERIOR LIGHTING PLAN

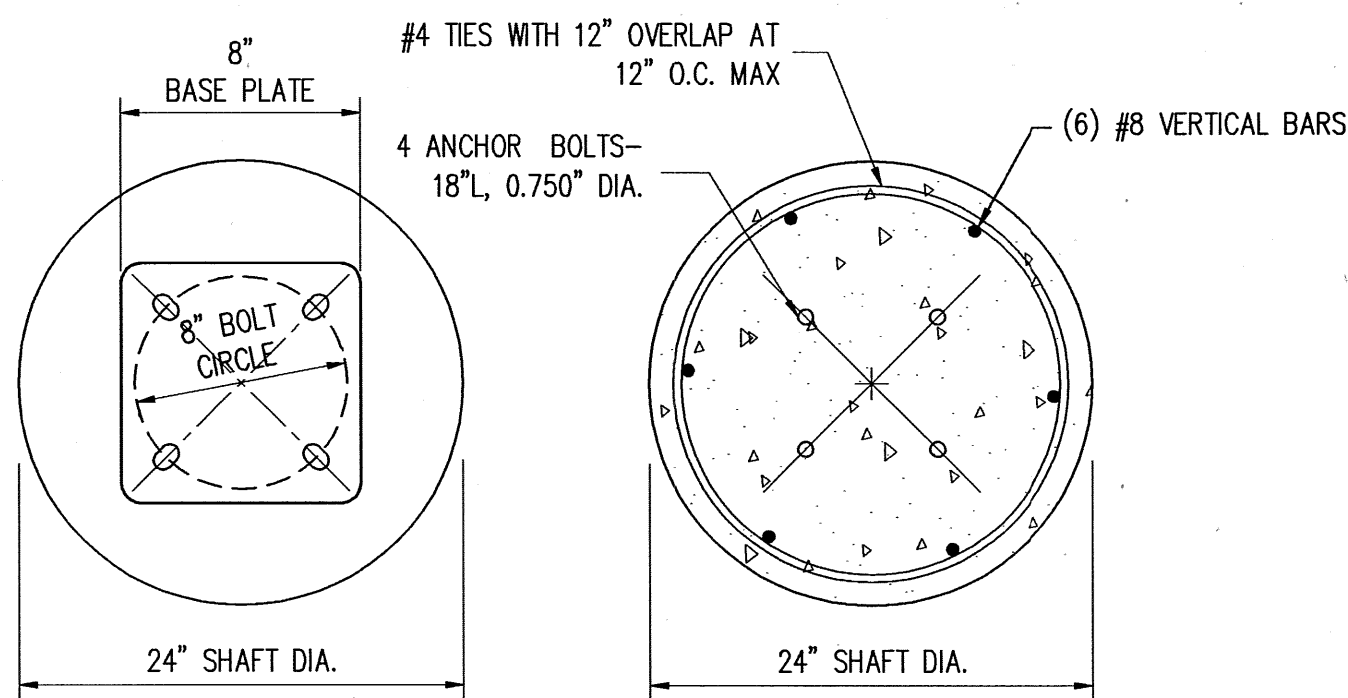
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
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| 5798.91 | DRAWING NO. E6 | ZONE MAP NO. L-15-Z | SHEET 15 | OF 17 |



1 AREA LIGHT POLE DETAIL
NOT TO SCALE

GENERAL NOTES:

1. ALL HARDWARE TO BE GALVANIZED TO ASTM A153.
2. INTERIOR AND EXTERIOR POLE ASSEMBLY TO BE EITHER GALVANIZED PER ASTM A123 AND/OR POWDER COAT FINISHED AND WRAPPED. ALL WELDING TO CONFORM TO AWS D1.1 MOST RECENT EDITION.
3. POLE DESIGN WIND SPEEDS ARE FOR 90 MPH WIND SPEED INCLUDING 1.3 GUST FACTOR WITH LUMINAIRE SIZE OF 2.0 FT. SQ. E.P.A. AND 52 POUNDS.
4. DESIGNS ARE BASED AGAINST COMMERCIAL GRADE STANDARDS.
5. INSTALLATION OF POLES/LUMINAIRES TO CONFORM TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. LUMINAIRES TO BE INSTALLED PARALLEL TO PARKING LINES.



| QTY | KEY | DESCRIPTION | MOUNTING | POWER SOURCE | PART NUMBER | WATTS/FIXTURE |
|-----|-----|---|--|-------------------------------|--------------------------------|---------------|
| 3 | A | ALTITUDE 120 TYPE 4 NFO | SINGLE HEAD FIXTURE, MOUNT TO EXISTING WOOD POLE AT 25' | EXISTING UTILITY POWER SOURCE | ALT-4-NFO-120L | 279 |
| 2 | B | ALTITUDE 120 TYPE 4, SQUARE NON TAPERED STEEL POLE | DOUBLE HEAD FIXTURE, MOUNTED TO NEW STEEL POLE AT 33' WITH CONCRETE FOUNDATION | PANEL P | ALT-4-120L, SNS-30-50-7-AB | 558 |
| 1 | C | ALTITUDE 120 TYPE 4 NFO, SQUARE NON TAPERED STEEL POLE | SINGLE HEAD FIXTURE, MOUNTED TO NEW STEEL POLE AT 33' WITH CONCRETE FOUNDATION | PANEL PR | ALT-4-NFO-120L, SNS-30-50-7-AB | 279 |
| 3 | | | | PANEL NL | | |
| 2 | D | ALTITUDE 120 TYPE 4, SQUARE NON TAPERED STEEL POLE | SINGLE HEAD FIXTURE, MOUNTED TO NEW STEEL POLE AT 33' WITH CONCRETE FOUNDATION | PANEL NL | ALT-4-120L, SNS-30-50-7-AB | 279 |
| 1 | E | ALTITUDE 96 TYPE 4 | SINGLE HEAD FIXTURE, MOUNTED TO EXISTING J-BOX ON BUILDING WALL | PANEL P | ALT-4-96L | 224 |
| 2 | F | ALTITUDE 60 TYPE 4 | SINGLE HEAD FIXTURE, MOUNTED TO NEW J-BOX ON BUILDING WALL | PANEL P | ALT-4-60L | 141 |
| 1 | G | ALTITUDE 60 TYPE 4 | SINGLE HEAD FIXTURE, MOUNTED TO EXISTING J-BOX ON BUILDING WALL | PANEL B | ALT-4-60L | 141 |
| 3 | | | | PANEL L3 | | |
| 3 | | | | PANEL PR | | |
| 7 | H | ARCEOS LARGE FLOOD WITH TOP VISOR, DIMMING DRIVER, ON FIXTURE WIRELESS COMMUNICATION MODULE | SINGLE HEAD FIXTURE, KNUCKLE MOUNTED TO ROOF OF EXISTING BUILDING | PANEL A | ARF4-K-84L-4K-070-N | 194 |
| 2 | I | LAREDO LMC | SINGLE HEAD FIXTURE, MOUNTED TO EXISTING J-BOX ON BUILDING WALL | PANEL P | LMC-30LU-4K-2-4-WIH | 71 |
| 2 | | | | PANEL PR | | |

2 LIGHT FIXTURE SCHEDULE
NOT TO SCALE

| PANEL NAME | PANEL LOCATION | PANEL RATING | LOAD REMOVED | LOAD ADDED | NET NEW LOAD |
|------------|----------------------------------|--------------------|--------------|------------------|-------------------|
| PANEL B | IN NORTH EAST BUILDING | 225 AMPS/208 VOLT | 250 WATT | 141 WATTS | - 109 WATTS |
| PANEL L3 | EXISTING GARAGE | 125 AMPS/ 480 VOLT | 750 WATT | 423 WATTS | - 327 WATTS |
| PANEL A | BUILDING EXTERIOR NEAR GENERATOR | 200 AMPS/480 VOLT | 750 WATT | 582 WATTS | - 168 WATTS |
| PANEL NL | WELDING SHOP | 225 AMPS/480 VOLT | 750 WATT | 1395 WATTS | + 645 WATTS |
| PANEL P | MAINTENANCE SHOP | 400 AMPS/480 VOLT | 4250 WATTS | 2340 WATTS | - 1910 WATTS |
| PANEL PR | BUS WASH | 225 AMPS/480 VOLT | 1500 WATTS | 706 WATTS | - 794 WATTS |
| PANEL HA | FUEL ISLAND | 200 AMPS/480 VOLT | 0 KVA | 15,000 VOLT-AMPS | +15,000 VOLT-AMPS |

EXISTING FIXTURES (LOAD REMOVED) ASSUMED TO BE 250 WATTS EACH

2 ADDED POWER LOAD SUMMARY
NOT TO SCALE

| YALE MAINTENANCE FACILITY ELECTRICAL DETAILS | | | | | |
|---|------------------------|---------------------|-------------|-------|--|
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR. | | |
| LAST DESIGN UPDATE | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5798.91 | DRAWING NO. E7 | ZONE MAP NO. L-15-Z | SHEET 16 | OF 17 | |

| AS-BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| CONTRACTOR | DATE | CONTRACTOR | DATE | FIELD NOTES | DATE | NO. | DATE |
| WORKED BY | DATE | WORKED BY | DATE | BY | DATE | | |
| ACCEPTED BY | DATE | ACCEPTED BY | DATE | | | | |
| FIELD VERIFICATION BY | DATE | FIELD VERIFICATION BY | DATE | | | | |
| OFFICE CORRECTION BY | DATE | OFFICE CORRECTION BY | DATE | | | | |
| MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | | MICRO-FILM INFORMATION | |
| RECORDED BY | DATE | RECORDED BY | DATE | RECORDED BY | DATE | RECORDED BY | DATE |
| NO. | DATE | NO. | DATE | NO. | DATE | NO. | DATE |



| | | | |
|--------------|------------------|-----------|----|
| NO. | DATE | REMARKS | BY |
| | | REVISIONS | |
| | | DESIGN | |
| DESIGNED BY: | DATE: 12/10/2014 | | |
| DRAWN BY: | DATE: 12/10/2014 | | |
| CHECKED BY: | DATE: 12/10/2014 | | |

| YALE MAINTENANCE FACILITY | | | | | | | | | | | |
|---|----------------------------|----------------------|-------|--|---------|---------|------------------|----------|-----------------------------------|-----------|----|
| Existing Electric Panel Schedule | | | | | | | | | | | |
| Date: 1/19/2015 | | | | | | | | | | | |
| EXISTING PANELBOARD 'HA' | | | | LOCATION: FUELING ISLAND - NORTHWEST CORNER. | | | | | | | |
| RATINGS: 277/480 VAC, 3 phase, 225A MCB, 14,000 AIC RATED | | | | | | | | | | | |
| CIRCUIT # | DESCRIPTION | BKR SIZE | VA | Phase A | Phase B | Phase c | VA | BKR SIZE | DESCRIPTION | CIRCUIT # | |
| 1 | 37.5 KVA TRANSFORMER | 100A/2P | 18750 | 18750 | | | 0 | - | SPACE | 2 | |
| 3 | | | 18750 | | 18750 | | 0 | - | | 4 | |
| 5 | | - | 0 | | | 0 | 0 | - | | 6 | |
| 7 | LIGHTS* | 20A/1P | 2770 | 2770 | | | 0 | - | SPACE | 8 | |
| 9 | LIGHTS* | 20A/1P | 2770 | | 2770 | | 0 | - | SPACE | 10 | |
| 11 | LIGHTS* | 20A/1P | 2770 | | | 2770 | 0 | - | SPACE | 12 | |
| 13 | GAS CO. PANEL** | 13302 | | 13302 | | | 0 | - | SPACE | 14 | |
| 15 | | 13302 | | | 13302 | | 0 | - | SPACE | 16 | |
| 17 | | 13302 | | | | 13302 | 0 | - | SPACE | 18 | |
| 19 | OIL RECOVERY PUMP (1/2 HP) | 300 | 300 | | | | 0 | - | SPACE | 20 | |
| 21 | | 300 | | | 300 | | 0 | - | SPACE | 22 | |
| 23 | | 300 | | | | 300 | 0 | - | SPACE | 24 | |
| 25 | SPACE | 0 | 0 | | | | 0 | - | SPACE | 26 | |
| 27 | | 0 | | 7500 | | | 7500 | 40A/2P | NEW TRANSFORMER ASSEMBLY PANEL | 28 | |
| 29 | | 0 | | | 7500 | | 7500 | | | 30 | |
| 31 | COMP CNG HEATERS*** | 2200 | 2200 | | | | 0 | - | SPACE | 32 | |
| 33 | | 2200 | | 2200 | | | 0 | - | SPACE | 34 | |
| 35 | | 2200 | | | 2200 | | 0 | - | SPACE | 36 | |
| 37 | CNG DRYER*** | 2200 | 3030 | | | | 830 | 20A/3P | AIR COMPRESSOR 1.5 HP EST. | 38 | |
| 39 | | 2200 | | 3030 | | | 830 | | | 40 | |
| | | 2200 | | | | 3030 | 830 | | | | 42 |
| 41 | | 2200 | | | | | | | | | |
| | | Phase Connected Load | | 40352 | 47852 | 29102 | Estimated Demand | | | | |
| | | Total Connected Load | | 117306 | | | | | | | |
| | | Feeder Voltage | | 480 | | | | | | | |
| | | Feeder Phase Amps | | 141 | | | | | | | |

* ASSUME LIGHTING 10 AMPS @ 277 V
** ASSUME MAXIMUM CAPACITY 80% OF BREAKER RATING
*** ASSUME MAXIMUM 8 AMP.

1 EXISTING 277/480V PANEL "HA" SCHEDULE
NOT TO SCALE

| PROJECT: YALE MAINTENANCE FACILITY | | | | | | | | | | | | |
|--|---------------------------|-----------|-----|---|---------|-----|-----------|------------------------------------|-----------------------|----|--|--|
| Electric Panel Schedule | | | | | | | | | | | | |
| Date: 1/19/2015 | | | | | | | | | | | | |
| Panel LA - EXISTING | | | | LOCATION:FUELING ISLAND - NORTHWEST CORNER. | | | | | | | | |
| RATINGS: 120/240 VAC, 1 phase, 100A Rated, 80A MCB, NEMA 3R, 10 KAIC RATED | | | | | | | | | | | | |
| CIRCUIT # | DESCRIPTION | BKRR SIZE | VA | Phase A | Phase B | VA | BKRR SIZE | DESCRIPTION | CIRCUIT # | | | |
| 1 | NEW FUEL PUMP | 20A/2P | 828 | 828 | | 0 | 80A/2P | PANELBOARD MAIN CIRCUIT PROTECTION | 2 | | | |
| 3 | | | 828 | | 828 | 0 | | | | 4 | | |
| 5 | NEW FUEL DISPENSER #1 - 1 | 15A/1P | 240 | 480 | | 240 | 20A/2P | | NEW IQ BOX CONTROLLER | 6 | | |
| 7 | GENERAL RECEPTACLE | 20A/1P | 180 | | 420 | 240 | | | | 8 | | |
| 9 | SPARE | 20A/1P | 0 | 240 | | 240 | 20A/2P | NEW ISOTROL 1-8 BOX CONTROLLER | 10 | | | |
| 11 | SPARE | 20A/1P | 0 | | 240 | 240 | | | 12 | | | |
| 13 | SPARE | 20A/1P | 0 | 0 | | 0 | 20A/1P | | SPARE | 14 | | |
| 15 | SPACE | - | 0 | | 0 | 0 | 20A/1P | | SPACE | 16 | | |
| 17 | SPACE | - | 0 | 0 | | 0 | - | SPACE | 18 | | | |
| 19 | SPACE | - | 0 | | 0 | 0 | - | SPACE | 20 | | | |
| 21 | SPACE | - | 0 | 0 | | 0 | - | SPACE | 22 | | | |
| 23 | SPACE | - | 0 | | 0 | 0 | - | SPACE | 24 | | | |
| Phase Connected Load | | | | 1548 | 1488 | | | | | | | |
| Total Connected Load | | | | | 3036 | | | | | | | |
| Feeder Voltage | | | | | 240 | | | | | | | |
| Feeder Phase Amps | | | | | 13 | | | | | | | |

2 NEW PANELBOARD ASSEMBLY "LB" SCHEDULE
NOT TO SCALE

| LOAD SUMMARY | | | | |
|--|----------|-------|-------|-------|
| YALE MAINTANANCE FACILITY | | | | |
| PANEL 'HA' NEW AND EXISTING LOAD SUMMARY | | | | |
| | | HP | FLA | KVA |
| EXISTING PANELBOARD 'HA' 480/277V 3-PH, 200 AMP. (LOCATED AT NORTHWEST CORNER OF FUELING ISLAND) | | | | |
| EXISTING LIGHTS 2-POLE (TYP. OF 3) | EXISTING | - | 10.0 | 4.8 |
| EXISTING TRANSFORMER 37.5 KVA (480V-240/120V) MAX. LOAD | EXISTING | - | 45.0 | 37.4 |
| EXISTING GAS CO. CONTROL PANEL | EXISTING | - | 48.0 | 39.9 |
| OIL RECOVERY PUMP | EXISTING | 1/2 | 1.1 | 0.9 |
| AIR COMPRESSOR | EXISTING | 1-1/2 | 3.0 | 2.5 |
| CNG HEATERS | EXISTING | | 8.0 | 6.7 |
| CNG DRYER | EXISTING | | 8.0 | 6.7 |
| NEW TRANSFORMER /PANELBOARD "LB" 15 KVA (480V-240/120V) MAX. LOAD | NEW | - | 18.0 | 15.0 |
| TOTAL CONNECTED LOAD FOR PANELBOARD 'HA' | | | 141.1 | 113.8 |
| NEW PANELBOARD 'LB' 240/120V 1-PH, 80 AMP. (LOCATED AT NORTHWEST CORNER OF FUELING ISLAND) | | | | |
| FUEL PUMP (240V) | NEW | 3/4' | 6.9 | 1.7 |
| FUEL DISPENSER (120V) | NEW | - | 2.0 | 0.2 |
| GENERAL RECEPTACLE | NEW | - | 1.5 | 0.2 |
| IQ-BOX (CONTROL BOX) (240V) | NEW | - | 2.0 | 0.5 |
| ISOTROL 1-8 (CONTROL BOX) (240V) | NEW | - | 2.0 | 0.5 |
| TOTAL CONNECTED LOAD 15KVA TRANSFORMER #3 480-240/120V 1-PH. | | | 14.4 | 3.0 |
| TOTAL CONNECTED LOAD FOR PANELBOARD 'LB' | | | 12.4 | 2.6 |

3 PANELBOARD "HA" LOAD SUMMARY
NOT TO SCALE

| CONDUIT AND CONDUCTOR SCHEDULE - NEW WORK ONLY | | | | | | | |
|--|--------------|---------|--|------------|------------|---------------------------|---------------------------|
| CONDUIT | CONDUIT SIZE | CIRCUIT | LINE | NEUTRAL | GROUND | SOURCE | DESTINATION |
| P100 | 3/4" | 1 | 2 - 8 AWG | - | 1 - 10 AWG | PANEL "HA" | TRANSFORMER ASSEMBLY "T" |
| P101 | 3/4" | 1 | 1 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | PANEL "LB" | GFCI RECEPTACLE |
| P102 | 1" | 1 | 2 - 12 AWG | - | 1 - 12 AWG | PANEL "LB" | PUMP STARTER |
| P103 | 1" | 1 | 2 - 12 AWG | - | 1 - 12 AWG | PUMP STARTER | JUNCTION BOX |
| P104 | 1" | 1 | 2 - 12 AWG | - | 1 - 12 AWG | JUNCTION BOX | SUBMERSIBLE PUMP |
| P105 | 1" | 1 | 2 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | PANEL "LB" | IQ-BOX |
| P106 | 3/4" | 1 | 1 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | IQ-BOX | SHUT OFF SWITCH |
| P107 | 1" | 3 | 6 - 14 AWG STRANDED CONTROL (FIELD VERIFY) | | | IQ-BOX | PUMP SENSORS |
| P108 | 1" | 1 | 2 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | PANEL "LB" | PUMP SENSORS - SPARE |
| P109 | 3/4" | 2 | 4 - 14 AWG STRANDED CONTROL (FIELD VERIFY) | | | ISOTROL 1-8 CONTROL PANEL | ISOTROL 1-8 CONTROL PANEL |
| P110 | 1" | 1 | 1 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | ISOTROL 1-8 CONTROL PANEL | EXISTING CARD READER |
| P111 | 3/4" | 2 | 4 - 14 AWG STRANDED CONTROL (FIELD VERIFY) | | | ISOTROL 1-8 CONTROL PANEL | FUEL DISPENSER - SPARE |
| P112 | 3/4" | 1 | 1 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | PANEL "LB" | ISOTROL 1-8 CONTROL PANEL |
| P113 | 3/4" | 1 | 1 - 12 AWG | - | 1 - 12 AWG | ISOTROL 1-8 CONTROL PANEL | IQ-BOX |
| P114 | 3/4" | 1 | 1 - 12 AWG | 1 - 12 AWG | 1 - 12 AWG | IQ-BOX | PUMP STARTER |
| P115 | - | - | - | - | 8 - AWG | PANEL "LB" | GROUND ROD |

4 CONDUIT SCHEDULE
NOT TO SCALE

| YALE MAINTENANCE FACILITY | | | | | |
|---------------------------|------------------------|---------------------|-------------|-------------|--|
| ELECTRICAL DETAILS | | | | | |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5798.91 | DRAWING NO. E8 | ZONE MAP NO. L-15-Z | SHEET 17 | OF 17 | |