

CITY OF ALBUQUERQUE

Planning Department

Suzanne Lubar, Director



Mayor Richard J. Berry

January 22, 2016

Jeff Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, New Mexico 87109

RE: **Highland High School Bus bay Improvements**
4700 Coal Ave SE
Grading and Drainage Plan
Engineers Stamp Date 12/21/15 (K17D021E)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 12/22/15, this plan is approved for Grading Permit, Building Permit and Paving Permit.

PO Box 1293

Please have the owner/contractor attach a copy of this approved plan dated 12/21/15 to the construction sets in the permitting process prior to sign-off by Hydrology. If this plan is not in the construction sets at permitting the project will be rejected.

Albuquerque

Once the project is complete, provide our department with a copy of the as-build survey for our records.

New Mexico 87103

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

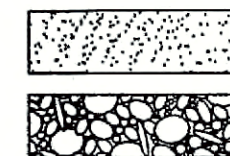
Abiel Carrillo, P.E.
Principal Engineer, Hydrology
Planning Department

RR/AC
C: File

• L E G E N D •

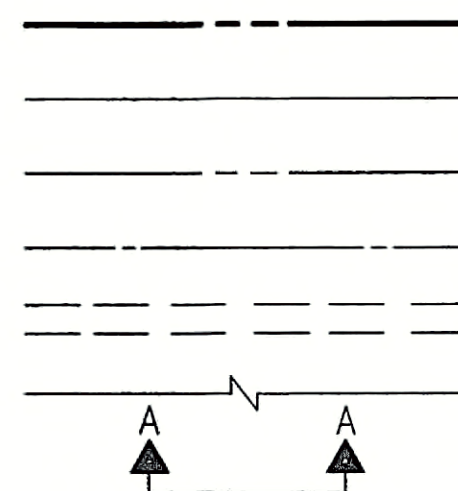
MATERIALS

CONCRETE
RIP-RAP



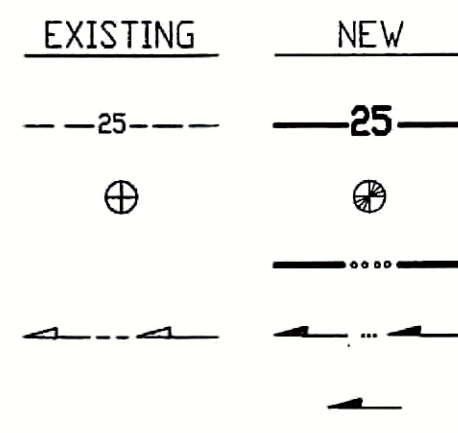
LINES

SUBDIVISION BOUNDARY
PROPERTY LINE (PLAN)
PROPERTY LINE (SECTION)
CENTERLINE
EASEMENT LINE
MATCH LINE
SECTION CUT LINE



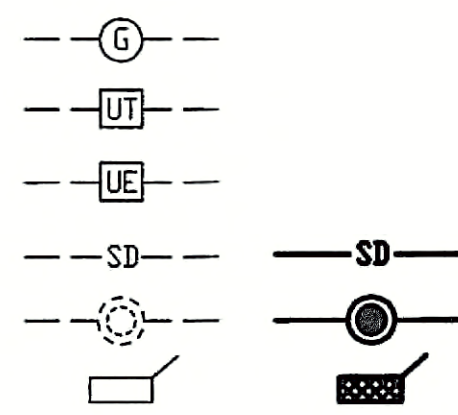
EARTHWORK

CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
FLOWLINE
DIRECTION OF FLOW



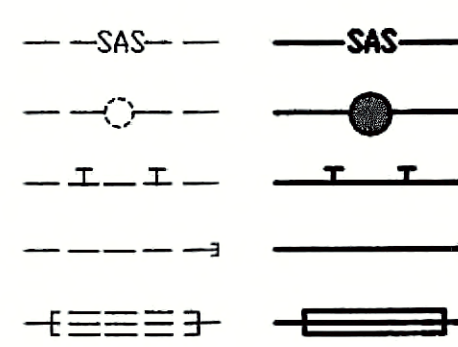
MISCELLANEOUS UTILITIES

GAS LINE
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRICAL
STORM DRAIN
STORM DRAIN MANHOLE
STORM DRAIN INLET



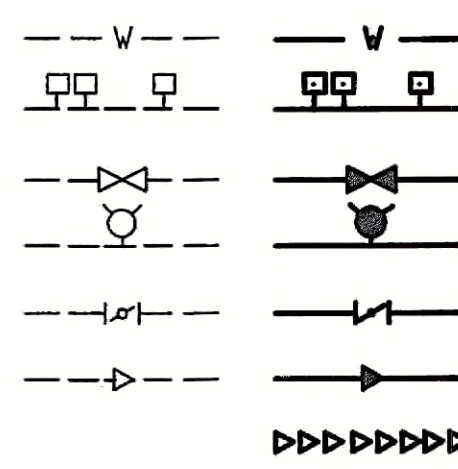
SANITARY SEWER

SANITARY SEWER LINE
SANITARY SEWER MANHOLE
SAS SERVICE CONNECTIONS
SAS CAP OR PLUG
ENCASEMENT



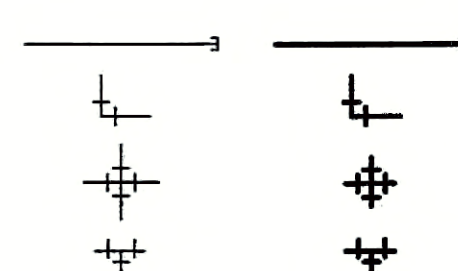
WATER

WATER LINE
WATER SERVICE CONNECTIONS
GATE VALVE
FIRE HYDRANT
BUTTERFLY VALVE
REDUCER
WATER PRESSURE ZONE BOUNDARY



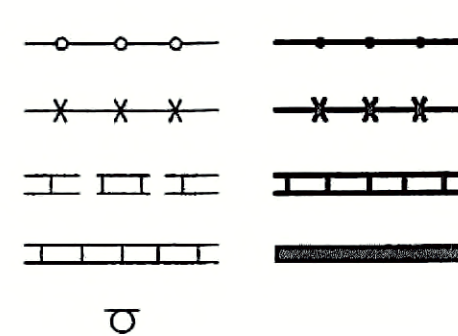
WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE



MISCELLANEOUS

CHAINLINK FENCE
FIELD FENCE
COMMON YARD WALL
RETAINING WALL
POWER OR TELEPHONE POLE

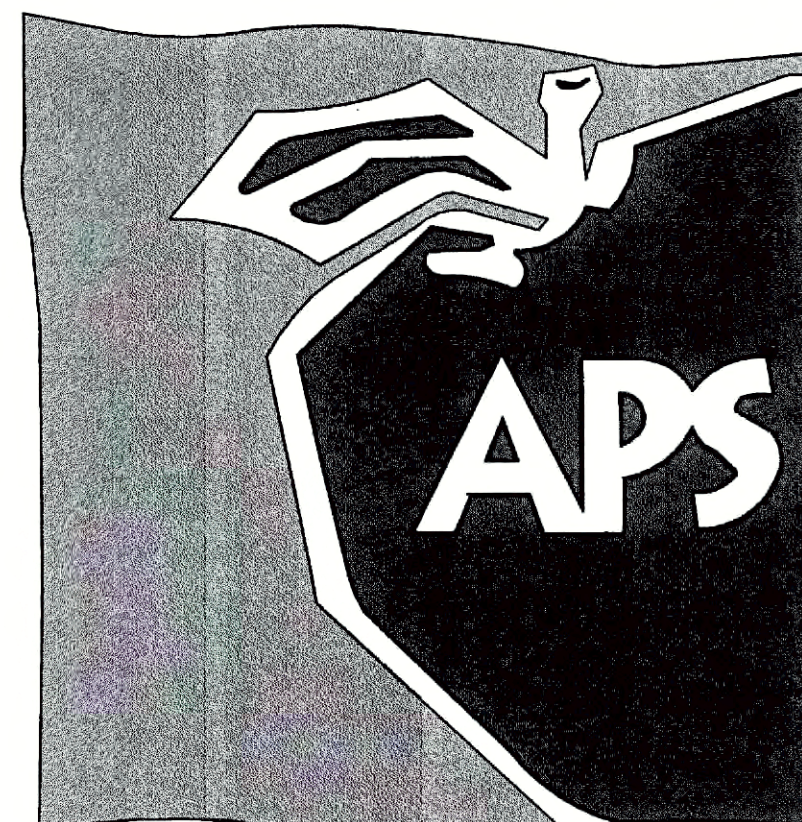


CONSTRUCTION PLANS

for

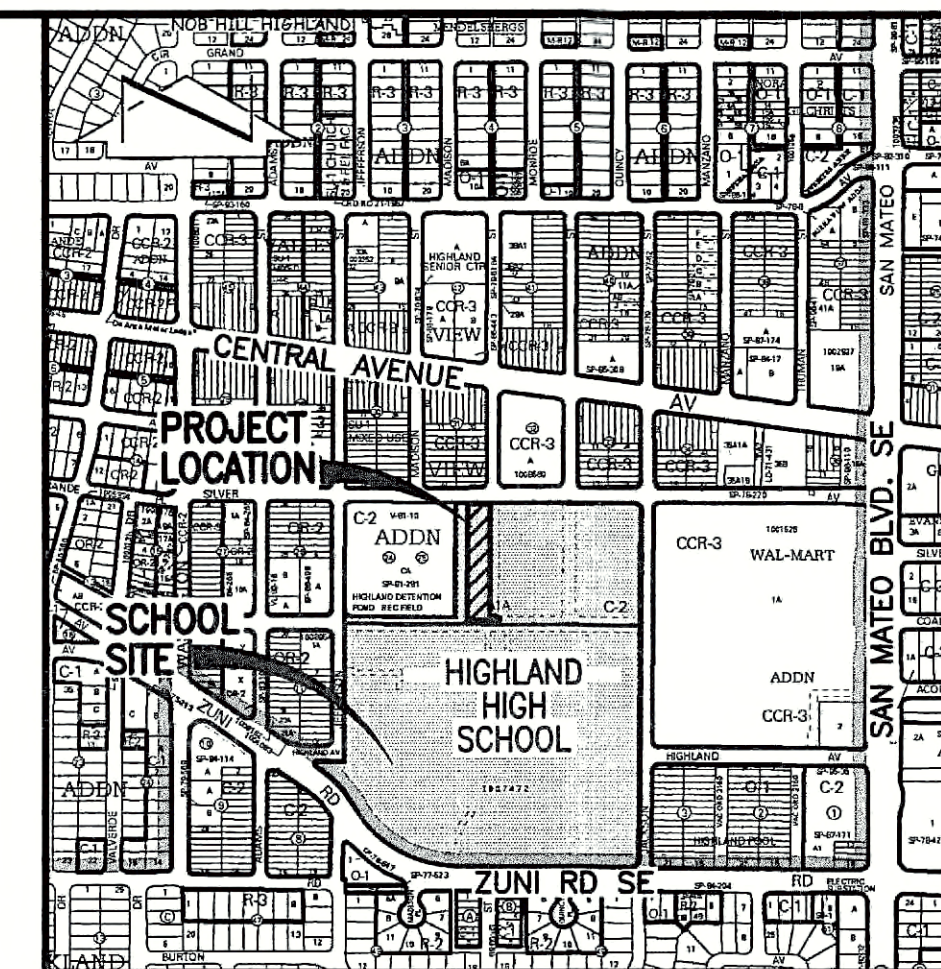
BUSBAY IMPROVEMENTS
HIGHLAND HIGH SCHOOL

4700 COAL AVENUE S.E.
ALBUQUERQUE, NEW MEXICO
DECEMBER, 2015



INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	OVERALL PLAN
3	DEMOLITION & EROSION AND SEDIMENT CONTROL PLAN
4	SITE PLAN & FIRST FLUSH CALCULATIONS
5	GRADING PLAN
6	SECTIONS AND DETAILS
7	FOUNDATION AND ENLARGED GRADING PLANS
8	(STRUCTURAL DRAWINGS) - PENDING



VICINITY MAP
SCALE: 1" = 750'±

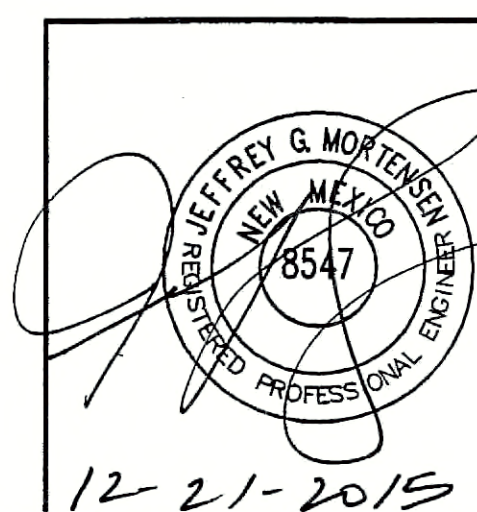
K-17

GENERAL NOTES:

- 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 NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON RECORD DRAWINGS 03-18-2011 (2010.180.3). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
- IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
- THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
- THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.

JOB NO. 2014.181.4

REV.	SHEETS	CITY	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
APPROVAL OF REVISIONS										

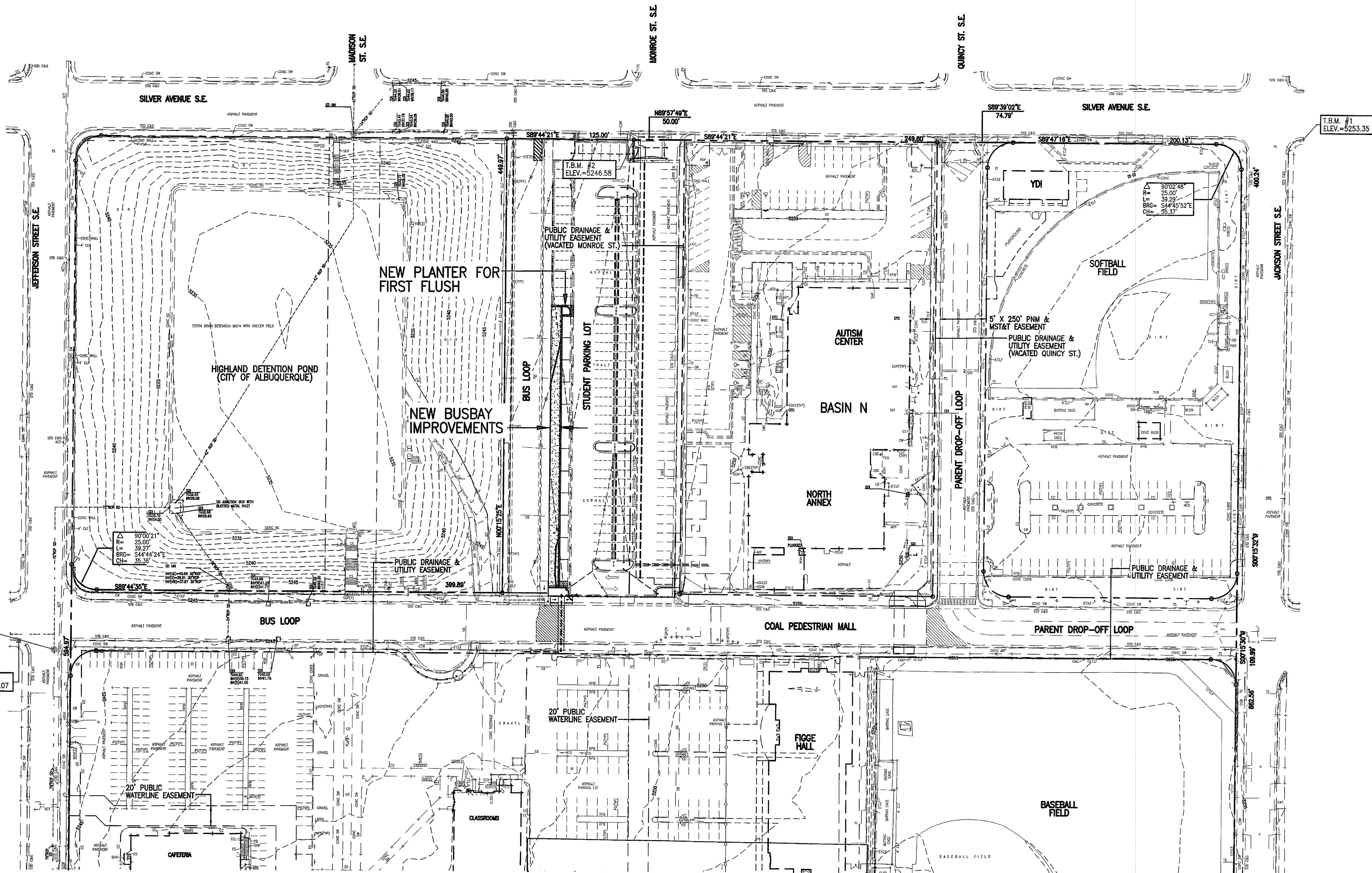


HIGH MESA Consulting Group
4810 S MIDWAY PARK BLVD, NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

APPROVED FOR
CONSTRUCTION

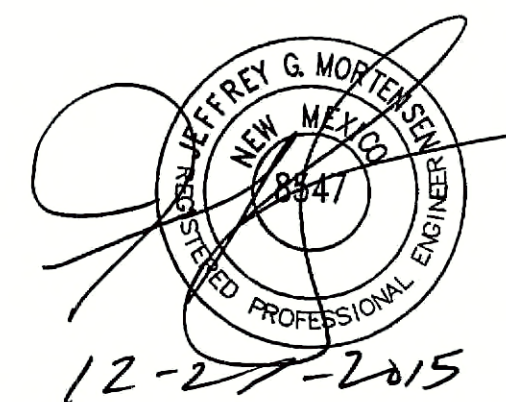
C.E.

SHEET 1 OF _



A FLAGGED NAIL AT THE SOUTHWEST QUADRANT OF JEFFERSON STREET AND COAL AVENUE, AS SHOWN. ELEVATION = 5243.07 FEET (NAVD 1988)

NO.	DATE	BY	REVISIONS	JOB NO.
				2014.181.4
				DATE 12-2015
				SHEET 2 OF



EASEMENT KEYED NOTES:

- ⑫ MONROE STREET S.E. BETWEEN SILVER AVENUE S.E. AND COAL AVENUE S.E. VACATED BY 09DRB-70050. PUBLIC EASEMENTS RETAINED (ABCWUA PUBLIC SANITARY SEWER AND PUBLIC WATER, PUBLIC SERVICE COMPANY OF NEW MEXICO, NEW MEXICO GAS COMPANY, QWEST TELECOMMUNICATIONS, AND COMCAST CABLE VISION OF NEW MEXICO, INC.). SURFACE MAINTENANCE OF THE RETAINED EASEMENTS THE RESPONSIBILITY OF THE OWNER OF TRACT A-1-A, HIGHLAND HIGH SCHOOL.

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON RECORD DRAWING DATED 03-18-2011 (2010.180.3). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
4. CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASH-OUT; THE WASH-OUT OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE UNLESS OTHERWISE PROVIDED FOR BY THIS PLAN. IF PROVIDED FOR BY THIS PLAN, CONCRETE TRUCKS MAY ONLY WASH-OUT IN A DESIGNATED AND LINED WASH-OUT FACILITY.

LEGEND

ARV	WATER AIR RELEASE VALVE
ASV	ANTI-SIPHON VALVE
CLF	CHAINLINK FENCE
DGA	DOUBLE GATE
FL	FLOWLINE
G/PM	UNDERGROUND GAS BY PAINT MARK
GA	GATE
GR	GRAVEL
GVB	GAS VALVE BOX
INV	INVERT ELEVATION
PB	PARKING BUMPER
PI	PAINTED ISLAND
PS	PARKING STRIPE
SAS	SANITARY SEWER
SGA	SLIDE GATE
SW	SIDEWALK
SWC	SIDEWALK CULVERT
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
*	DECIDUOUS TREE
+	UTILITY MARKER
+	EXISTING SPOT ELEVATION
---	EXISTING FLOWLINE
---	EXISTING CONTOURS
+	EXISTING HIGH POINT / DIVIDE
W	WADDLES

BENCHMARKS

PROJECT BENCHMARK

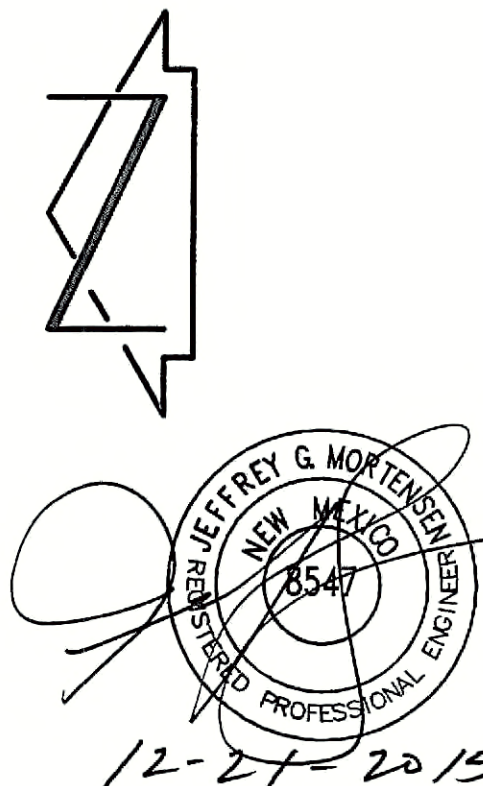
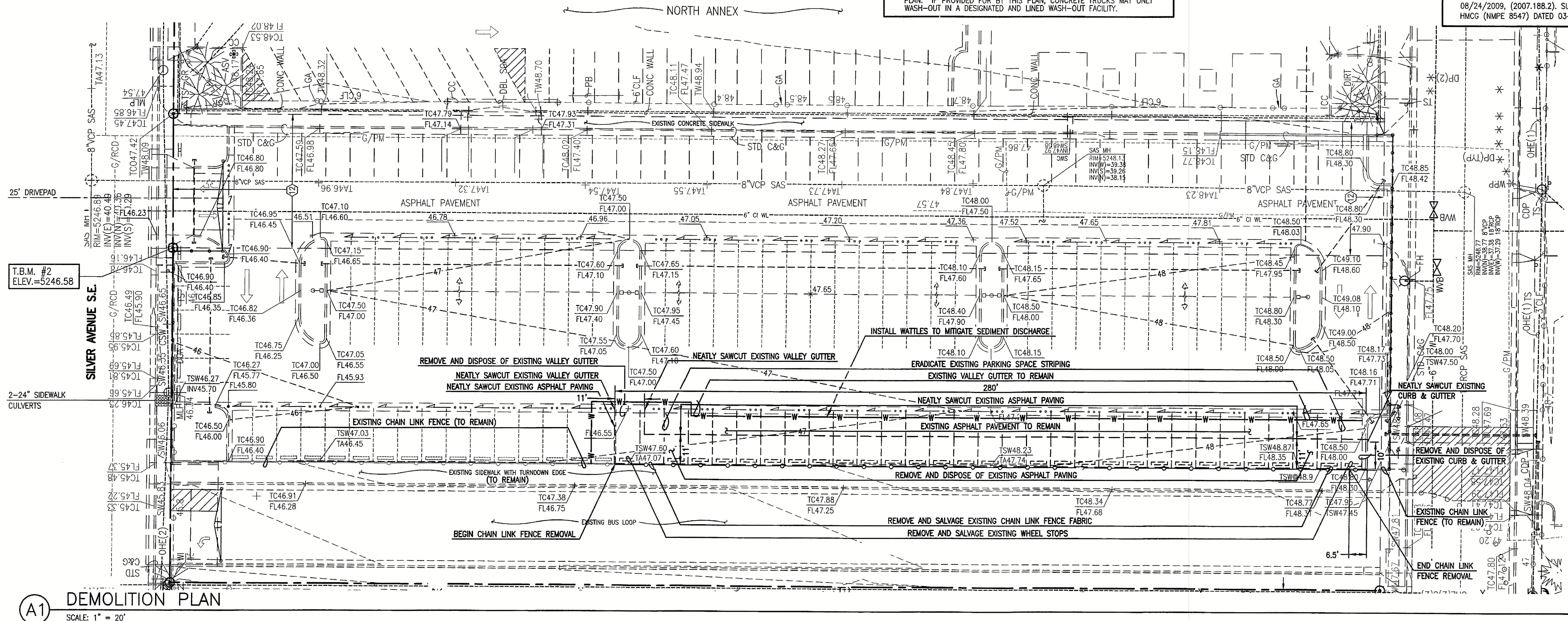
ACS 2" BRASS DISC SET STAMPED "6-K18A ACS" SET IN SIDEWALK AT THE INTERSECTION OF CENTRAL AVENUE AND JACKSON STREET. ELEVATION = 5249.99 FEET (NAVD 1988)

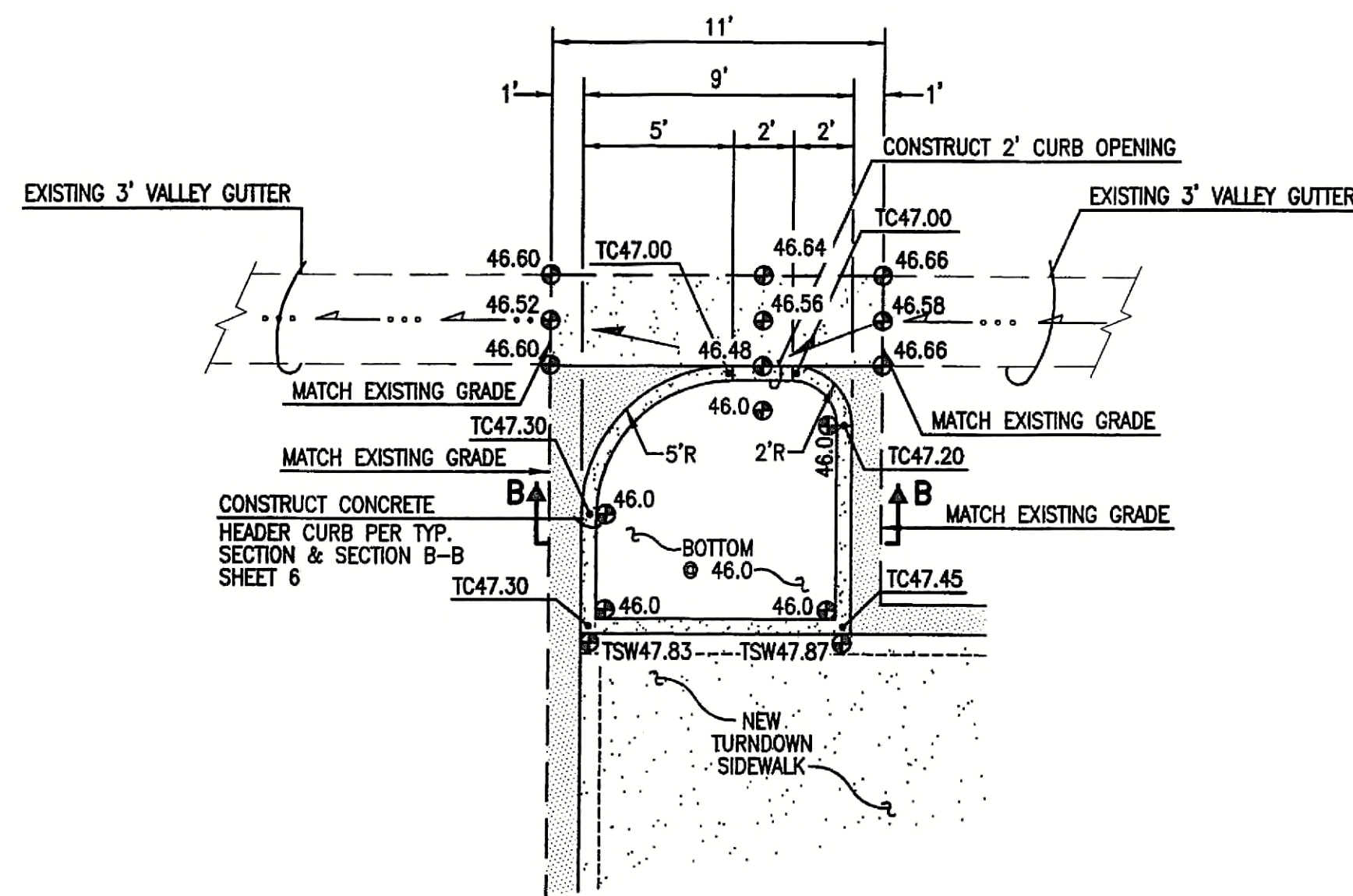
T.B.M. #2

A CHISELED "+" ON THE HANDICAP RAMP AT THE SOUTHWEST QUADRANT OF SILVER AVENUE AND MONROE STREET, AS SHOWN THIS SHEET. ELEVATION = 5246.58 FEET (NAVD 1988)

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP (HMC), (NMPS NO. 11184), DATED 03-24-2008. (2007.184.6) TOPOGRAPHIC SURVEY INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY BY HIGH MESA CONSULTING GROUP, (NMPS 11184), DATED 03-24-2008, AND CONSTRUCTION PLANS (RECORD DRAWINGS) BY HMC, DATED 08/24/2009, (2007.188.2). SUPPLEMENTED BY RECORD DRAWING PREPARED BY HMC (NMPE 8547) DATED 03-18-2011 (2010.180.3)





ENLARGED DETAIL

SCALE: 1" = 5'

EASEMENT KEYED NOTES:

- (2) MONROE STREET S.E. BETWEEN SILVER AVENUE S.E. AND COAL AVENUE S.E. VACATED BY 09DRB-70050. PUBLIC EASEMENTS RETAINED (ABCWUA PUBLIC SANITARY SEWER AND PUBLIC WATER, PUBLIC SERVICE COMPANY OF NEW MEXICO, NEW MEXICO GAS COMPANY, QWEST TELECOMMUNICATIONS, AND COMCAST CABLE VISION OF NEW MEXICO, INC.). SURFACE MAINTENANCE OF THE RETAINED EASEMENTS THE RESPONSIBILITY OF THE OWNER OF TRACT A-1-A, HIGHLAND HIGH SCHOOL.

CALCULATIONS (FIRST FLUSH FROM NEW CANOPY)

I. NEW CANOPY CHARACTERISTICS

A. PRECIPITATION ZONE =	2
B. $P_{100, 6 \text{ HR}} = P_{360} =$	2.35
C. NEW CANOPY AREA (A_T) =	3,170 SF 0.07 AC
D. LAND TREATMENTS	
TREATMENT	AREA (SF/AC)
A	0 / 0
B	0 / 0
C	0 / 0
D	3,170 / 0.07

II. HYDROLOGY

A. DEVELOPED CONDITION

FIRST FLUSH (90TH PERCENTILE STORM EVENT)

$$E_w = (E_A A_T + E_B A_B + E_C A_C + E_D A_D) / A_T$$

$$E_w = (0.00 \times 0.00) + (0.00 \times 0.00) + (0.00 \times 0.00) + (0.44 \times 0.07) / 0.07 = 0.44 \text{ IN}$$

$$V_{FF} = (E_w / 12) A_T = (0.44 / 12) 0.07 = 0.0026 \text{ AC-FT} = 110 \text{ CF}$$

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON RECORD DRAWING DATED 03-18-2011 (2010.180.3). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASH-OUT; THE WASH-OUT OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE UNLESS OTHERWISE PROVIDED FOR BY THIS PLAN. IF PROVIDED FOR BY THIS PLAN, CONCRETE TRUCKS MAY ONLY WASH-OUT IN A DESIGNATED AND LINED WASH-OUT FACILITY.

LEGEND

ARV	WATER AIR RELEASE VALVE
ASV	ANTI-SIPHON VALVE
CLF	CHAINLINK FENCE
DGA	DOUBLE GATE
FL	FLOWLINE
G/PM	UNDERGROUND GAS BY PAINT MARK
GR	GATE
GVB	GAS VALVE BOX
INV	INVERT ELEVATION
PB	PARKING BUMPER
PI	PAINTED ISLAND
PS	PARKING STRIPE
SAS	SANITARY SEWER
SGA	SLIDE GATE
SW	SEWAGE
SWC	SEWAGE CULVERT
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
*	DECIDUOUS TREE
*	UTILITY MARKER
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

BENCHMARKS

PROJECT BENCHMARK

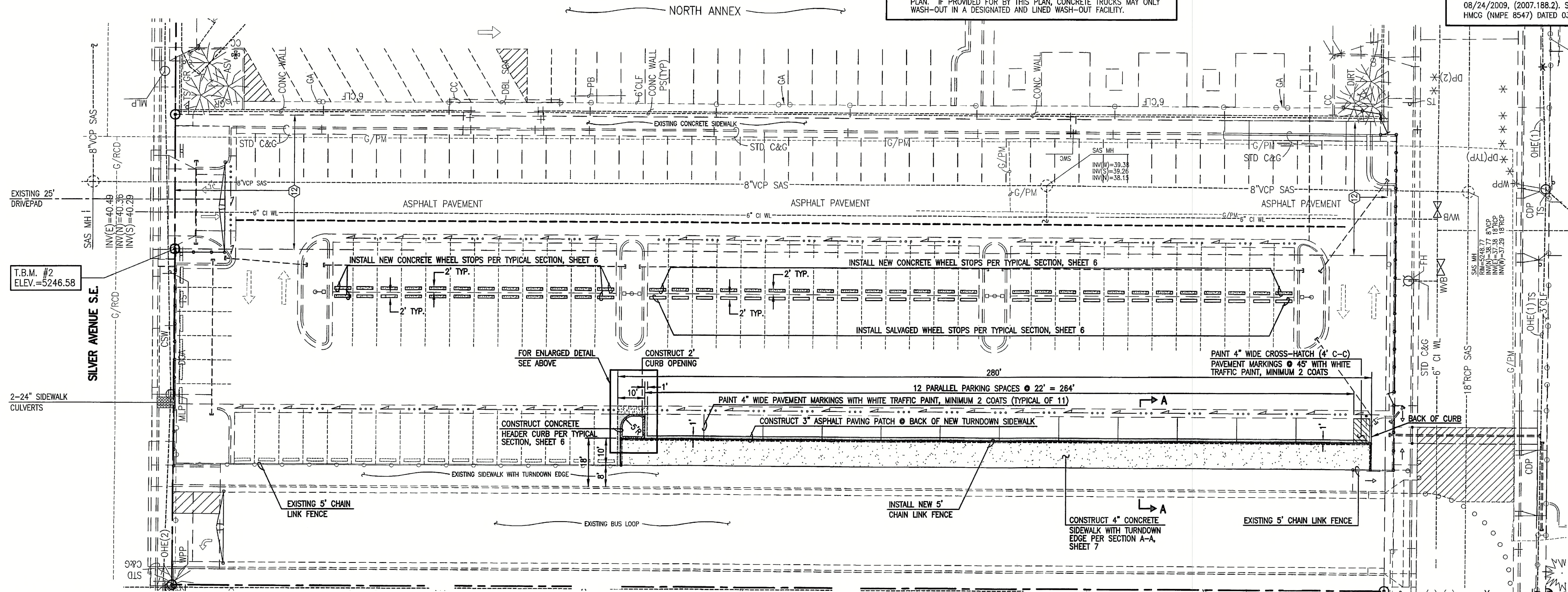
ACS 2" BRASS DISC SET STAMPED "6-K18A ACS" SET IN SIDEWALK AT THE INTERSECTION OF CENTRAL AVENUE AND JACKSON STREET. ELEVATION = 5249.99 FEET (NAVD 1988)

T.B.M. #2

A CHISELED "+" ON THE HANDICAP RAMP AT THE SOUTHWEST QUADRANT OF SILVER AVENUE AND MONROE STREET, AS SHOWN THIS SHEET. ELEVATION = 5246.58 FEET (NAVD 1988)

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP (HMC), (NMPS NO. 11184), DATED 03-24-2008, (2007.184.6) TOPOGRAPHIC SURVEY INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY BY HIGH MESA CONSULTING GROUP, (NMPS 11184), DATED 03-24-2008, AND CONSTRUCTION PLANS (RECORD DRAWINGS) BY HMC, DATED 08/24/2009, (2007.188.2), SUPPLEMENTED BY RECORD DRAWING PREPARED BY HMC (NMPE 8547) DATED 03-18-2011 (2010.180.3)



A1 SITE PLAN

SCALE: 1" = 20'

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

**SITE PLAN & FIRST FLUSH CALCULATIONS
BUSBAY IMPROVEMENTS
HIGHLAND HIGH SCHOOL
4700 COAL AVENUE S.E.**

DESIGNED BY: J.G.M.
DRAWN BY: J.Y.R./S.C.C.
APPROVED BY: J.G.M.

NO.	DATE	BY	REVISIONS
1	12-18-2015	J.G.M.	1. INITIAL DESIGN
2	12-18-2015	J.Y.R./S.C.C.	2. REVISED FOR CONSTRUCTION
3	12-18-2015	J.G.M.	3. REVISED FOR CONSTRUCTION
4	12-18-2015	J.G.M.	4. REVISED FOR CONSTRUCTION
5	12-18-2015	J.G.M.	5. REVISED FOR CONSTRUCTION
6	12-18-2015	J.G.M.	6. REVISED FOR CONSTRUCTION
7	12-18-2015	J.G.M.	7. REVISED FOR CONSTRUCTION
8	12-18-2015	J.G.M.	8. REVISED FOR CONSTRUCTION
9	12-18-2015	J.G.M.	9. REVISED FOR CONSTRUCTION
10	12-18-2015	J.G.M.	10. REVISED FOR CONSTRUCTION

JOB NO.	2014.181.4
DATE	12-2015
SHEET	4 OF 4

EASEMENT KEYED NOTES:

- (12) MONROE STREET S.E. BETWEEN SILVER AVENUE S.E. AND COAL AVENUE S.E. VACATED BY 09DRB-70050. PUBLIC EASEMENTS RETAINED (ABQWUA PUBLIC SANITARY SEWER AND PUBLIC WATER, PUBLIC SERVICE COMPANY OF NEW MEXICO, NEW MEXICO GAS COMPANY, QWEST TELECOMMUNICATIONS, AND COMCAST CABLE VISION OF NEW MEXICO, INC.). SURFACE MAINTENANCE OF THE RETAINED EASEMENTS THE RESPONSIBILITY OF THE OWNER OF TRACT A-1-A, HIGHLAND HIGH SCHOOL.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON RECORD DRAWING DATED 03-18-2011 (2010.180.3). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES, IN PLANNING AND CONDUCTING EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASH-OUT; THE WASH-OUT OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE UNLESS OTHERWISE PROVIDED FOR BY THIS PLAN. IF PROVIDED FOR BY THIS PLAN, CONCRETE TRUCKS MAY ONLY WASH-OUT IN A DESIGNATED AND LINED WASH-OUT FACILITY.

LEGEND

ARV	WATER AIR RELEASE VALVE
ASV	ANTI-SIPHON VALVE
CLF	CHAINLINK FENCE
DGA	DOUBLE GATE
FL	FLOWLINE
G/PM	UNDERGROUND GAS BY PAINT MARK
GA	GATE
GR	GRAVEL
GVB	GAS VALVE BOX
INV	INVERT ELEVATION
PB	PARKING BUMPER
PI	PAINTED ISLAND
PS	PARKING STRIPE
SAS	SANITARY SEWER
SGA	SLIDE GATE
SW	SIDEWALK
SWC	SIDEWALK CULVERT
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
☼	DECIDUOUS TREE
*	UTILITY MARKER
+ 47.65	EXISTING SPOT ELEVATION
⊕ 47.65	PROPOSED SPOT ELEVATION
— — — — —	EXISTING FLOWLINE
— — — — —	PROPOSED FLOWLINE
— — — — —	PROPOSED CONTOURS
⬆	HIGH POINT / DVNDE
▨	PROPOSED CONCRETE PAVEMENT

BENCHMARKS

PROJECT BENCHMARK

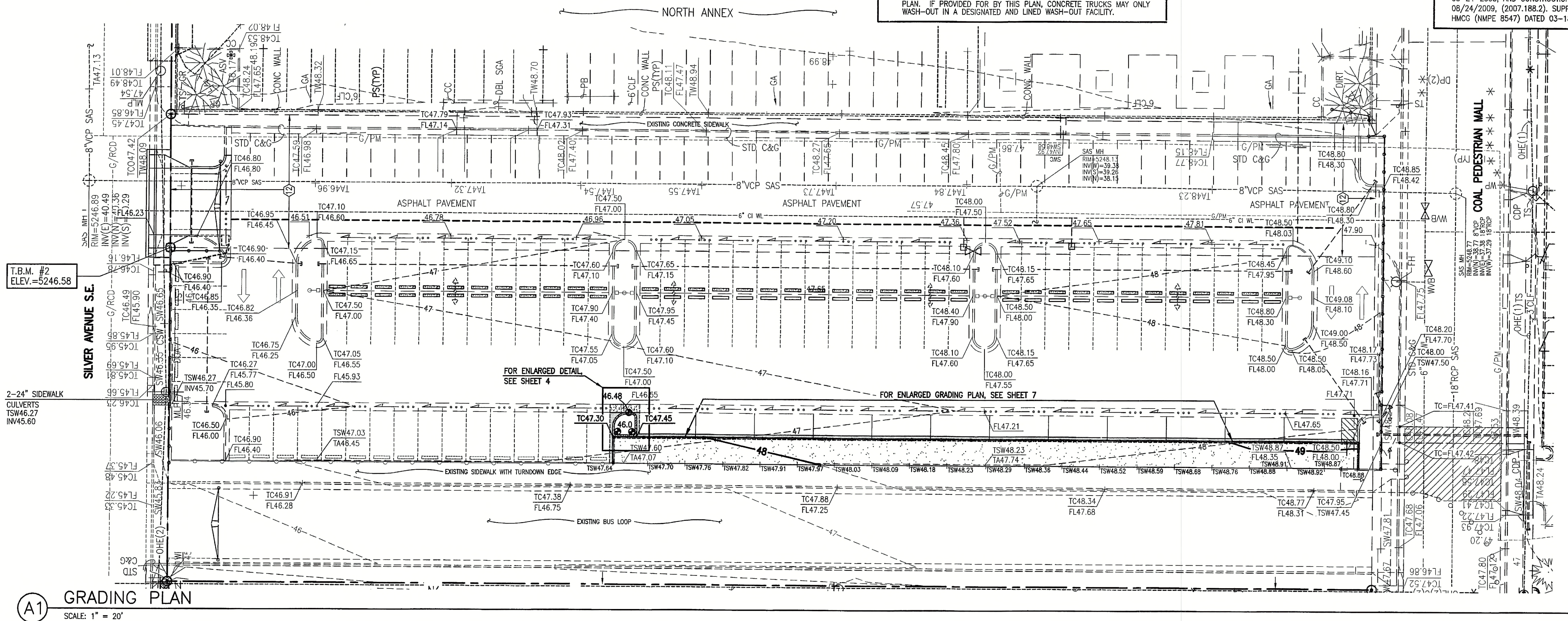
ACS 2" BRASS DISC SET STAMPED "6-K18A ACS" SET IN SIDEWALK AT THE INTERSECTION OF CENTRAL AVENUE AND JACKSON STREET. ELEVATION = 5249.99 FEET (NAVD 1988)

T.B.M. #2

A CHISELED "+" ON THE HANDICAP RAMP AT THE SOUTHWEST QUADRANT OF SILVER AVENUE AND MONROE STREET, AS SHOWN THIS SHEET. ELEVATION = 5246.58 FEET (NAVD 1988)

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP (HMC), (NMPS NO. 11184), DATED 03-24-2008. (2007.184.6) TOPOGRAPHIC SURVEY INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY BY HIGH MESA CONSULTING GROUP, (NMPS 11184), DATED 03-24-2008, AND CONSTRUCTION PLANS (RECORD DRAWINGS) BY HMC, DATED 08/24/2009, (2007.188.2). SUPPLEMENTED BY RECORD DRAWING PREPARED BY HMC (NMPE 8547) DATED 03-18-2011 (2010.180.3)



GRADING PLAN

SCALE: 1" = 20'

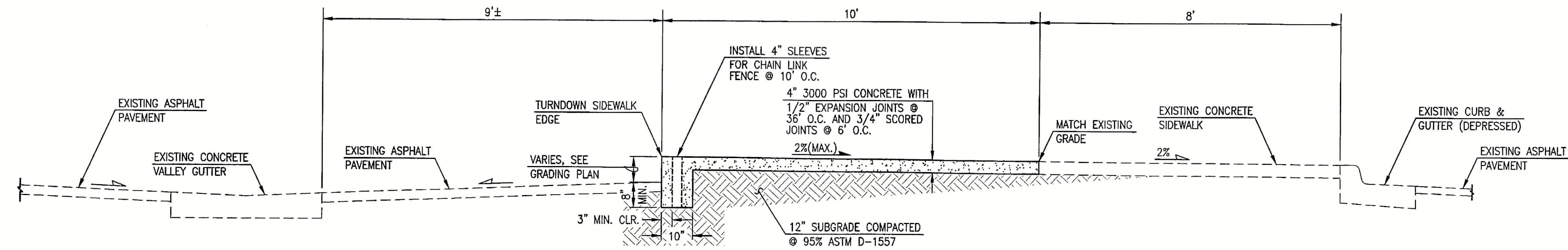
HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

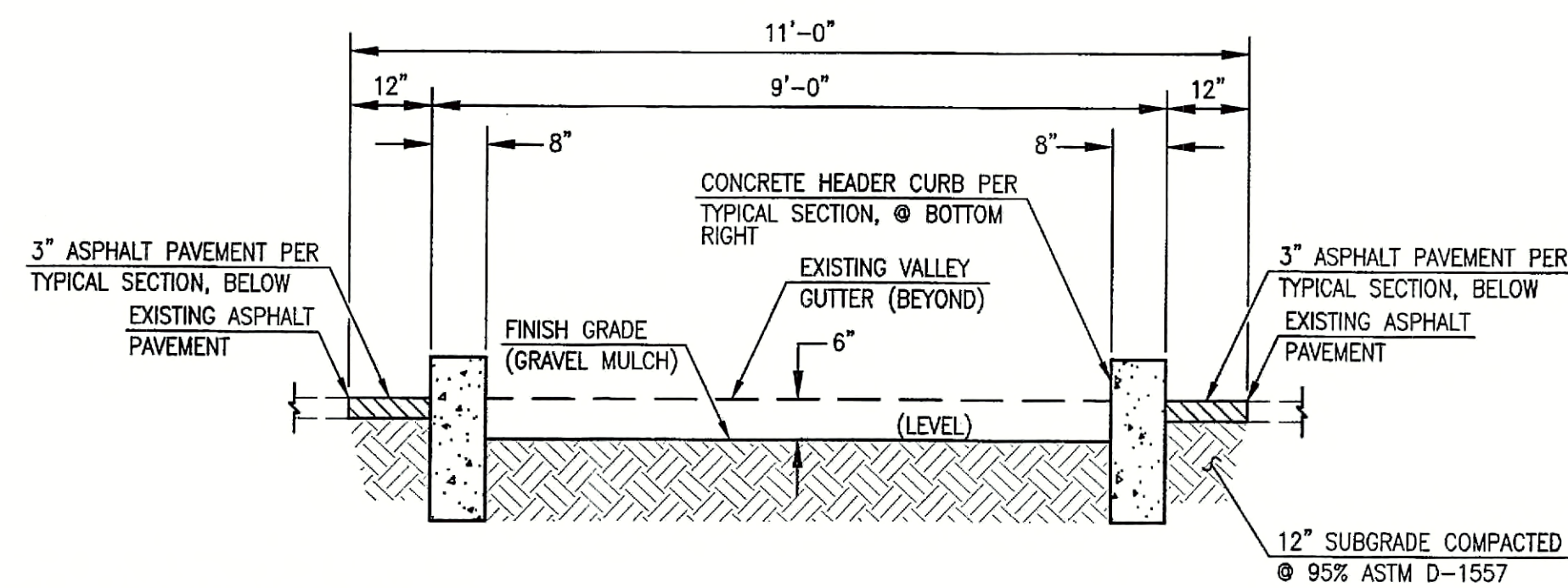
**GRADING PLAN
BUSBAY IMPROVEMENTS
HIGHLAND HIGH SCHOOL
4700 COAL AVENUE S.E.**

DESIGNED BY J.G.M.
DRAWN BY J.Y.R./S.C.G.
APPROVED BY J.G.M.

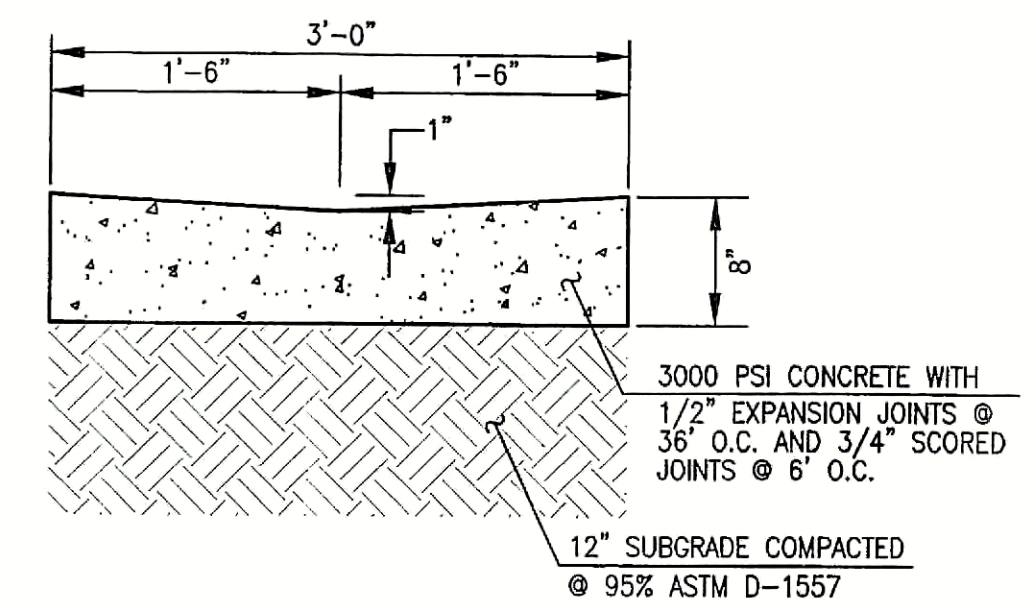
NO.	DATE	BY	REVISIONS	JOB NO.
				2014.181.4
				DATE 12-2015
				SHEET 5 OF



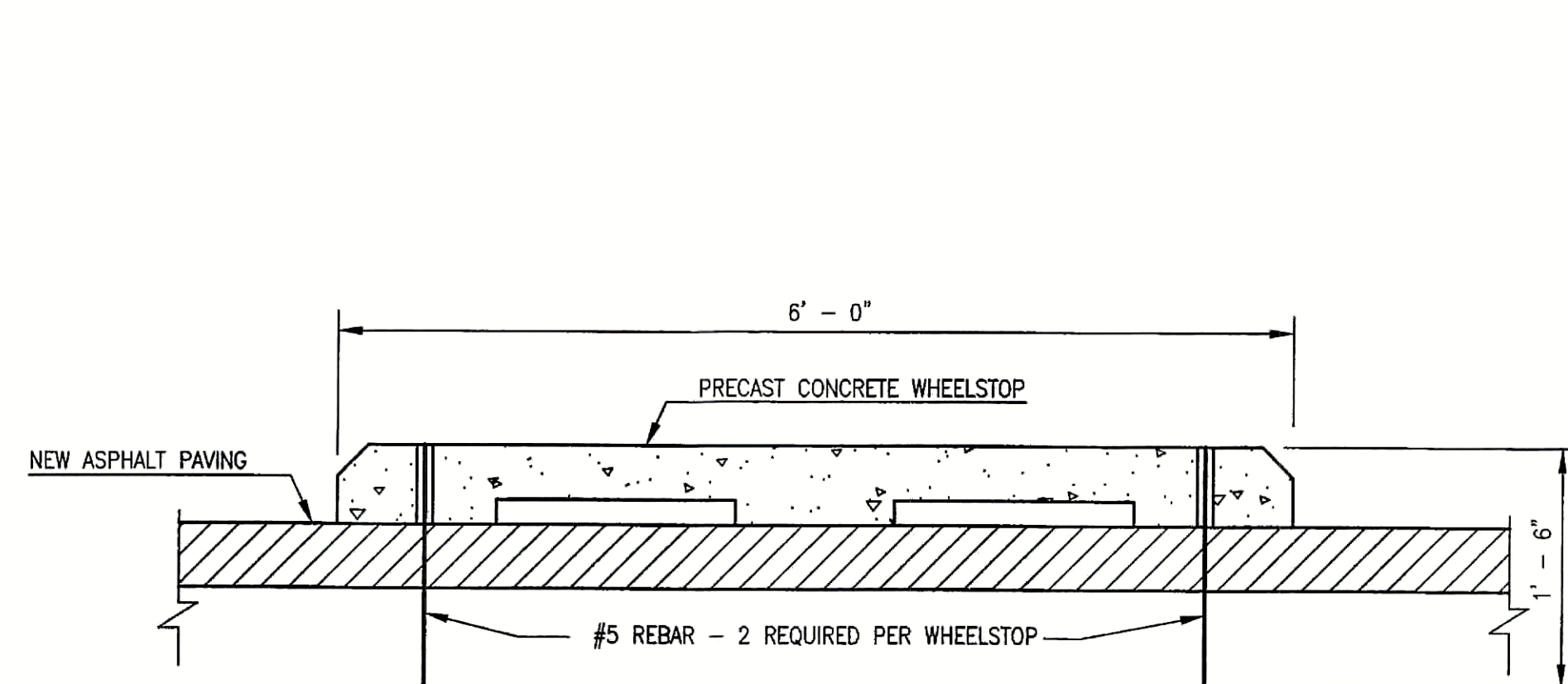
E1 SECTION A-A
SCALE: 1" = 2'



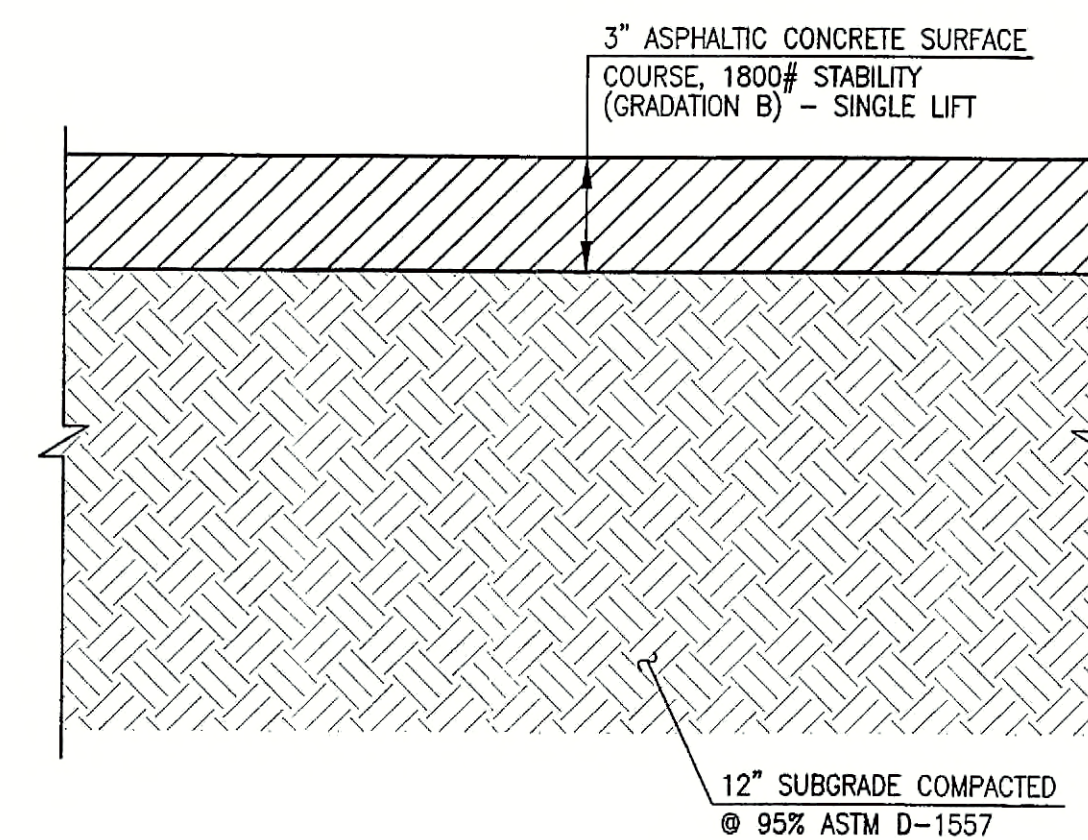
C1 SECTION B-B
SCALE: 1" = 2'



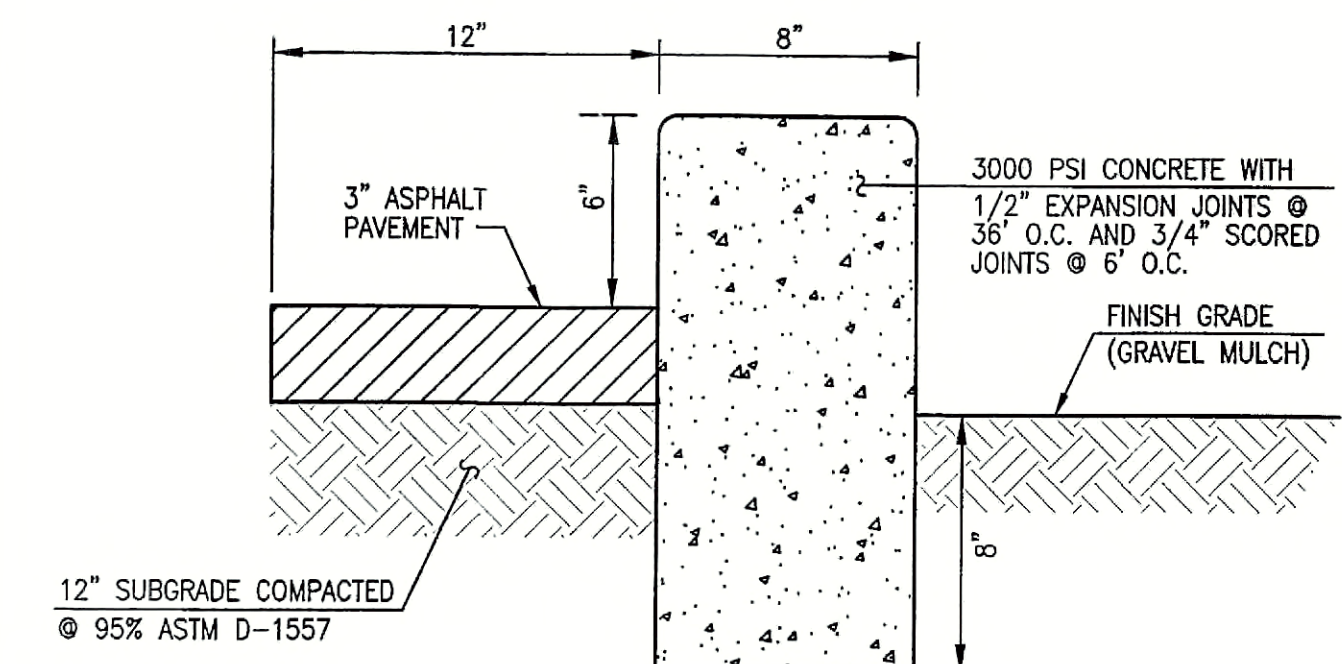
C5 VALLEY GUTTER SECTION
SCALE: 1" = 1'-0"



A1 WHEELSTOP SECTION
SCALE: 1" = 0'-6"

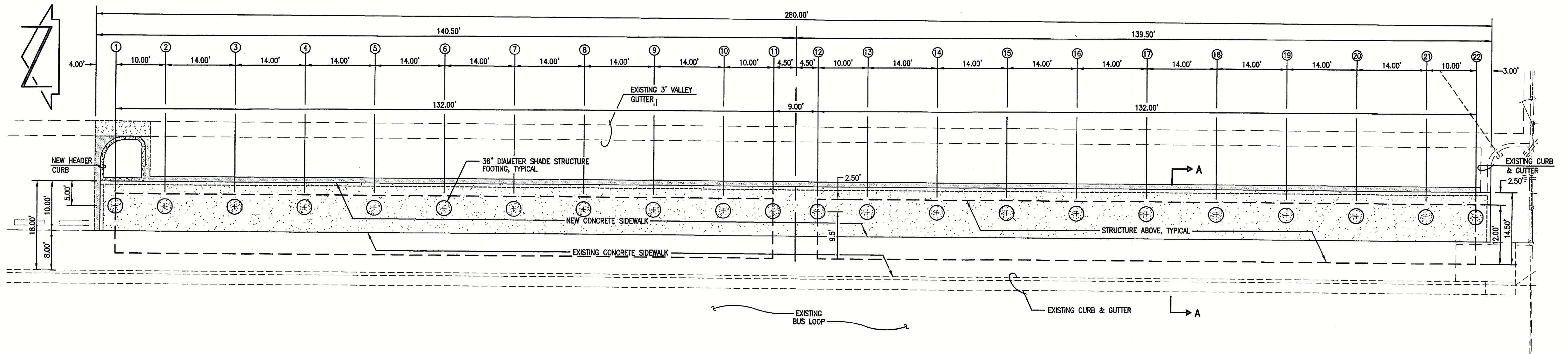


A3 TYPICAL 3" ASPHALT PAVING SECTION
SCALE: 1" = 0'-5"



A5 HEADER CURB SECTION
SCALE: 1" = 0'-6"

12-21-2015
JEFFREY G. WORTENDEN
REGISTERED PROFESSIONAL ENGINEER
8547



A1 FOUNDATION PLAN
SCALE: 1" = 10'

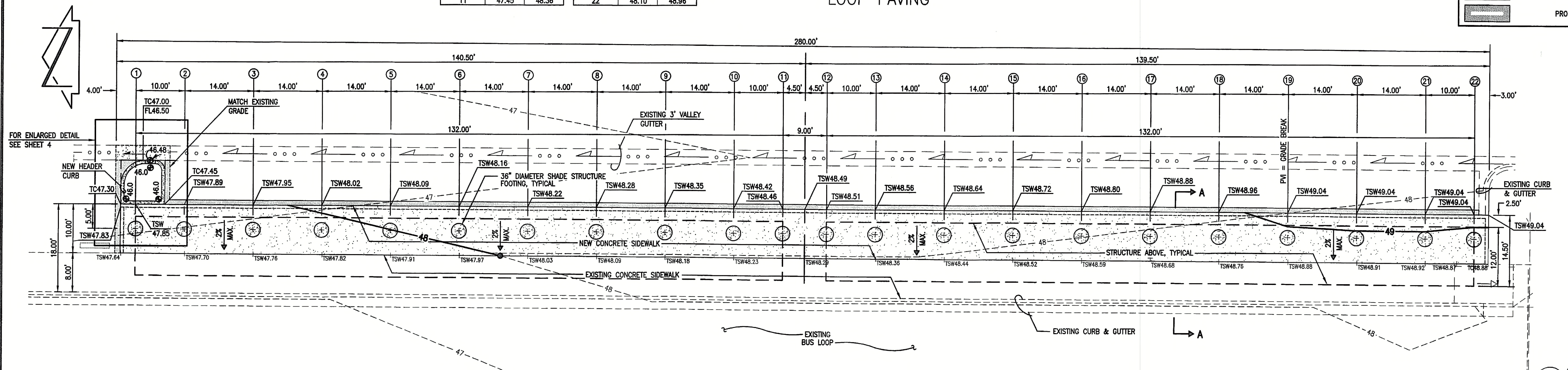
FOOTING#	TOF	TSW	FOOTING#	TOF	TSW
1	47.45	47.76	12	48.10	48.41
2	47.45	47.80	13	48.10	48.46
3	47.45	47.86	14	48.10	48.53
4	47.45	47.92	15	48.10	48.60
5	47.45	48.00	16	48.10	48.69
6	47.45	48.06	17	48.10	48.78
7	47.45	48.12	18	48.10	48.85
8	47.45	48.18	19	48.10	48.96
9	47.45	48.26	20	48.10	48.97
10	47.45	48.32	21	48.10	48.98
11	47.45	48.36	22	48.10	48.96

NOTES:

1. REFER TO SHEET 6 FOR SECTION A-A
2. NEW CANOPY ROOF SHALL SLOPE EAST AWAY FROM BUS LOOP AND TOWARD STUDENT PARKING LOT
3. NEW SIDEWALK SHALL SLOPE WEST TOWARD BUS LOOP PAVING



LEGEND	
TC	TOP OF CURB
TSW	TOP OF SIDEWALK
---	EXISTING FLOWLINE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED CONCRETE
---	PROPOSED ASPHALT PAVING



A1 ENLARGED GRADING PLAN
SCALE: 1" = 10'



HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

**FOUNDATION AND ENLARGED GRADING PLANS
BUSBAY IMPROVEMENTS
HIGHLAND HIGH SCHOOL
4700 COAL AVENUE S.E.**

DESIGNED BY	J.G.M.	NO.	DATE	BY	REVISIONS	JOB NO.	2014.181.4
DRAWN BY	J.Y.R./S.C.C.					DATE	12-2015
APPROVED BY	J.G.M.					SHEET	7 OF 7



File Path: P:\MWA\2014\181.4\DWG\181.4_SHEET7.DWG Plot Date: 12-18-2015
File Name: 181.4_SHEET7.DWG Plot Time: 2:23 pm